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### Machining On Demand

Customers would no longer accept large volumes, so this shop found a recipe for lean machining. Its owner thinks the same ingredients will take the process from low inventory to *no inventory*.

By Peter Zelinski

**Timing, the saying goes,** is everything. David Miller Sr. found out why. He became the owner of a successful job shop just in time to watch a recession steal its profits away.

The shop is Lemco-Miller Corporation of Danvers, Massachusetts. It specializes in machining parts with high precision and high value-added—for medical manufacturers, but also for the shop's key market, the computer industry. So when that industry hit a drought in the early 90's, Lemco-Miller suffered along with it. Months of work disappeared. Orders that represented a year's quantity of aluminum and steel parts used in semiconductor manufacturing were delayed by six months, or canceled altogether. The shop's cash flow . . . didn't.

And according to Mr. Miller, it was exactly this practice of sending annual orders to companies like his that made those hard times so hard. Year-sized orders had produced gluts of inventory up and down the supply chain. This excess not only paralyzed companies' productive resources, it also left those companies unable to resume buying from one another until the inventories were depleted.

Lemco-Miller was a volume production shop. Ten years of filling year-sized orders had built the successful job shop that Mr. Miller purchased. However, he got in just in time to see that traditional model give way. The new model—in his markets, and in others—is just-in-time production, machining in smaller batches to reduce customers' inventory costs.

So Lemco-Miller had to transform its process from one that relied on large batches to one that could deliver lean manufacturing. Though the transformation is still underway, the example of this company illustrates the potential benefits of this change. It also hints at how to survive—and thrive—when a transformation like this becomes unavoidable.



David Miller Sr. and David Miller Jr. discuss a part at their Massachusetts job shop, Lemco-Miller Corp.

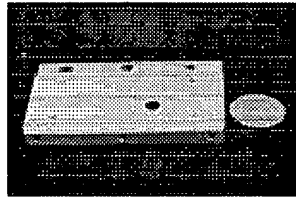


#### **Own No Tool Before Its Time**

Lemco-Miller's approach to tool management merits an article of its own. Select the link above to read that article.

#### **The I-Word**

Mr. Miller says the recession he and his customers experienced would have ended much sooner, if it wasn't for the burden they all shared. "Inventory drove that recession," he says.



These are some parts the shop has produced. The top photo shows a component used to align the image in a CAT scan machine. The slits, cut with a tiny saw, locate to within 0.0001 inch. The bottom photo shows a tool fixture used to produce solar panels, and a shaft used in an ion implant system. The latter part required turning, milling and grinding—all performed in-house—as well as gear cutting, welding and chrome plating, all of which Lemco-Miller coordinated with outside suppliers.

Companies had much of their cash tied up in inventories of consumable products they couldn't liquidate. His own shop illustrates the problem. It generally had runs of parts either lingering in-process, or finished but waiting to ship. It also had surpluses of tooling and raw materials. And while each such stockpile froze its value in assets, it also generated new costs in proportion to its size. In effect, the inventories charged rent, because they had to be stored and tracked, and because there was "spoilage"—the loss or damage of inventory while it waited to move.

Mr. Miller was not alone in seeing the role that inventory played. His customers saw it, too. Several customers came to him in the wake of the recession, all with essentially the same pronouncement. *No more orders for a year's worth of parts at a time*, the customers said. *From now on, orders will come in smaller batches with shorter leadtimes—in a market that won't let you raise prices.*

Mr. Miller admits that he got mad when he heard this. His customers were simply shifting their own inventory problems back to him.

He got mad, but only at first. Then he got ahead of this trend.

Mr. Miller went to customers with a counteroffer. It went something like this: *Very well, less inventory is what you shall have. Commit your business to Lemco-Miller, and our two companies will work together to achieve smaller and smaller inventories until inventory itself is no longer needed.*

It worked. Fueled by customer relationships that have grown more and more profitable as a result of this commitment, Lemco-Miller has tripled both employees and floor space—to around 50 people and 20,000 square feet—since Mr. Miller bought the company in 1989. Annual revenues range from \$5 to \$10 million.

Lemco-Miller's new approach doesn't focus on achieving and holding any short-term production goals for its long-term customers. Instead, the focus is on a single long-range goal—zero inventory—and continuous progress in that direction. If the goal is unachievable, the shop has yet to find that out. It continues to make inventories smaller and smaller.

For now, an important component of that drive is *kanban*. This is the pull system, first used by Toyota, in which inventory falling below a specific critical number triggers more production. In a kanban system, a product is assigned this critical inventory level, and the supplier is cued to produce the next batch only when that level is reached. Companies hoping to run on low inventory often use kanban to coordinate the frequent short runs needed to keep replenishing the inventory buffers.

Lemco-Miller currently has three-quarters of its customers in a kanban relationship. Eighteen months ago, this meant that the shop served these customers by machining parts to three-month batches. The shop then cut the standard batch size and leadtime to two months. One month was the next step. Now, Lemco-Miller is preparing to move to a cycle based on two weeks of inventory. And already, some customers enjoy leadtimes of one day.

However, Mr. Miller sees kanban as only an interim step.

"It is still a system that generates carrying costs," he says. The customer or producer must still store an

inventory, just a smaller one than traditional high volume production would require. Mr. Miller thinks this doesn't have to be. "We want to machine parts on demand, and precisely to the customer's consumption."

Lemco-Miller is convinced that the key to making its shop that responsive will be an ongoing system of continual process streamlining. This same approach has brought the company all of its efficiency gains since committing to lean production, and all of its progress to date away from large inventories. The shop tracks its process, analyzes the data for one source of cost and delay after another, and devises ways to circumvent each of these roadblocks in turn.

Among the results are all of the common-sense process improvements described throughout this article—and many others. These improvements feed on one another to let small batches speed through the shop, Mr. Miller says. Adopting any one, or even any handful, won't necessarily make a shop more lean. Not only is there no magic bullet, there isn't even a magic cloud of buckshot.

But Lemco-Miller found there was money to be made in the effort. The company's approach reduces its own inventories—of machined parts as well as supplies—right along with its customers'. Where the shop once had \$400,000 tied up in these inventories, the figure is now \$200,000 and falling.

In other words, inventory reduction alone paid for the shop's last two vertical machining centers, and most of their related tooling and accessories.

However, it wasn't easy to set that money free. Lemco-Miller doesn't have a standard product. It couldn't rely on any specialized hardware or dedicated system to accelerate production. The shop floor instead had to become more responsive for any manner of part, so the company could still take on whatever work came through the door.

Mr. Miller says that just to begin this transformation was perhaps the most difficult step of all.

### **Something To Run**

Before Lemco-Miller could optimize its process, it needed something *to* process. It needed parts for which it could expect regular orders, so it could time these parts at each operation, and objectively test the effectiveness of its attempts at process improvement.

The problem was how to obtain such long-running jobs in an environment where customers would no longer commit to annual quantities. Lemco-Miller's solution was to ask for annual relationships instead. Customers wouldn't receive an entire order for the year, they would simply estimate the demand for their various part numbers. In return for this information—along with the provisional promise of all of this business—Lemco-Miller agreed to provide the work in partial shipments. Each shipment would be just a fraction of the customer's annual requirement.

Lemco-Miller suffered for this arrangement at first. The company was still in its high volume mode. For some early kanban agreements, it still machined oversized batches, then simply swallowed the cost of holding the extra inventory until the customer needed it.

However, these agreements with customers gave Lemco-Miller leverage. It gave the shop the foothold it needed to step up to a more efficient process.

The company turned to its own suppliers. Traditionally, the shop would send each large raw material order to several suppliers for competitive bidding. Now, Lemco-Miller went to that same group of suppliers in search of at least one longer-term relationship.

The offer to raw-material suppliers mirrored the proposal to customers. Lemco-Miller told the suppliers: *We have a year's worth of business promised to us by our kanban customers, and you can supply us for all of this work. But you have to save us the cost of inventory by agreeing to deliver in smaller and smaller batches, and to our specifications.*

Most of Lemco-Miller's aluminum suppliers balked at this, but one did not. This supplier, Northstar Steel and Aluminum (Manchester, New Hampshire), now has all of the company's aluminum business.

Though the supplier had to make some changes in its own process to make this relationship work, it now fills Lemco-Miller's orders with daily deliveries. In fact, the supplier bought saws with some of its profits from the relationship. It now pre-cuts stock to requested dimensions, providing a service Lemco-Miller never received before.

A manufacturing nirvana? Not quite. For example, though it is still too soon in this experiment to know for sure, it may be that not every type of supply lends itself to small batches and leadtimes. That according to Mr. Miller's son, David Miller Jr. (also an officer in the company, as are his mother and sister). He says black anodizing, for one, continues to be a process logjam. The contractor offering this service can't make many adjustments to the process—his costs are the same no matter how many parts go through it. Therefore, he has to insist on minimum orders that are now far larger than Lemco-Miller's typical kanban batch. Mr. Miller Jr. says his company has yet to find an elegant solution to this problem.

In addition, not every customer is a candidate for kanban. Lemco-Miller can't be picky if it wants to stay in business—it continues to stand ready for one-time or high volume work. But one way it does this is by dividing its CNC machines. While five CNCs perform only kanban work, six others keep these machines free of distraction by running only non-kanban jobs. Mr. Miller Jr. says it's not hard to imagine how much more profitable the shop could be if all of the CNCs could run only kanban jobs. Right now, the kanban side makes far more income because utilization is higher. The non-kanban side is less profitable even though it has an extra machine working for it.

However, where Lemco-Miller can achieve low-inventory kanban relationships, all of the companies in the chain function as essentially a single unit. Each supplier is a virtual component of Lemco-Miller's process, and Lemco-Miller is its customers' virtual machine shop. Where once there were quotes for every job, now annual quotes are sufficient. And where once the process fed on inventory, now it requires only the free flow of information—the timely projection of each customer's needs.

When Lemco-Miller first reached the point where it had the promise of a steady

customer demand on one end, and the guarantee of an equivalent steady supply of materials on the other, all that remained was to open the flow between the two. The task, which continues to this day, is to remove the barriers that restrict this flow. Among the first barriers the company removed were barriers in its own thinking—some long-standing planning assumptions that were holding the process back.

### **Watch The Flow**

A pull system requires little if any advance planning. Customer demand writes its own plan instead. The shop floor simply reacts—either by filling the demand directly, or by replenishing the buffer of product that the customer is consuming right now.

When Lemco-Miller had large orders and long leadtimes, the system was far different. With the luxury to delay some jobs while it ran others, the shop used strategic planning in an attempt to allocate its production resources efficiently.

That planning system was built on two assumptions, both of which Lemco-Miller no longer accepts as true.

The assumptions can be stated thus:

1. *The shop's primary goal should be to minimize manufacturing unit cost.* Not necessarily, says Mr. Miller Jr.
2. *Setup time is a constant that must be amortized across the production run.* False, he says.

The company should have rejected the assumptions far earlier than it did, he says. However, they seemed fundamental to the idea of production machining, so it was difficult to notice how much they were costing the company.

Mr. Miller Jr. answers both assumptions in turn:



In response to number one, "Low unit cost is costly if you can't serve the customer," he says.

Lemco-Miller thinks the better measure is flow rate. That is, how long does it take *each piece* to move through the shop, and how can each piece move faster?

Consider one unit in a large batch, for example. The large volume may reduce the price to machine that workpiece, but it also slows this unit's flow. The customer can't receive even one unit until the entire batch is done. In addition, any excess production above what the customer needs will stall in inventory, costing either the shop or the customer money.

By contrast, when the shop machines parts in smaller batches that match the customer's demand, unit costs may indeed be a little higher. But in Lemco-Miller's experience, this premium is tiny in comparison to the savings to be realized from inventory reduction. And on first-time orders for which there is no existing inventory, customers receive their parts sooner.

Mr. Miller also points out that the traditional bias toward large batches doesn't take into account the customers who are being ignored. If a machine has to be occupied for four hours, then there may be no way to serve a customer who has an emergency need. But if the machine can be run for just one hour at a time, then there are four opportunities within that same period of time to change plans abruptly if a customer's need warrants it.

Still—what about the time to gather the tooling? The time to position the fixture on the table? The time to carry the part from operation to operation?

In short, what about the costly setup time that is the very motive for high-volume manufacturing?

Mr. Miller answers this with his response to assumption number two. "Setup time is not a constant!" he says.

Kanban revealed this to Lemco-Miller. As operators logged times and procedures at every step of the process for kanban parts, as well as each machining error and the reason for that error, this growing body of information began to show what steps in the process were draining the most time and money. In addition, "when batches are large, you can hide a lot of inefficiencies." But as shrinking batch sizes left the shop with fewer and fewer parts to absorb any one-time process costs, its own inefficiencies became more and more pronounced.

Lemco-Miller undertook to root out these inefficiencies, and the effort is still improving the process today. The company's approach to setup time reduction is a continuous exercise in analysis and problem-solving. According to Mr. Miller Jr., the approach looks something like this:

"On one part, we discovered that 30 percent of rejects resulted from the operator accidentally loading the part in the fixture wrong. So we changed the fixture. We redesigned it to make misloading impossible." (In his words, they made the fixture "Miller-proof.") "However, fixing a problem like this just moves the next source of inefficiency to the front of the line. It leads to one question after another. For example, the download requires the program to be edited at the machine—so why don't we reconfigure the postprocessor to let it download the way we need it? Then, why should the operator have to touch off—can we devise a setup that holds the workpiece so repeatably that we can skip this step? Then, why should the operator have to gather all of these special tools before he begins the job? It goes on and on."

To Lemco-Miller, setup time is far from constant. Instead, the shop sees it as a variable—one which more ingenuity can always make smaller.

### **Unchaining Supply**

The result of all of this effort isn't just a more efficient shop, says Mr. Miller Sr. It's a more efficient system spanning multiple companies. As customers see their faith in Lemco-Miller rewarded with still lower inventories, they renew their commitment to the kanban relationship. This results in efficiency gains that benefit both companies simultaneously, he says.

Take quoting on jobs, for example. When a quote for every job becomes one quote per year, all of the extra time that used to be spent on bidding—like Lemco-Miller submitting a bid, and the customer reading it alongside all of the other quotes—can now be devoted to productive work. Delivery times tell a similar story. The shop used to average an on-time delivery rate of about 70 percent. Now, it delivers 90 percent on-time overall, and 98 percent for its kanban customers. Thanks to better coordination between companies as well as a more reliable process, both Lemco-Miller and the customer now lose far less time on calling one another, and on making allowances for jobs that didn't run as planned.

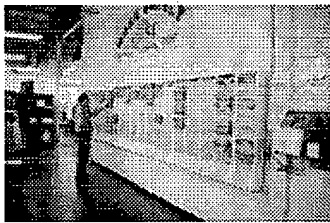
There is also more trust in the relationship. "This is more like the way we did business 30 years ago," Mr. Miller says.

Continually sending jobs out for bid has its price, he points out. In an environment where a customer may appear once and disappear, the supplier has to protect himself. He can't allow any customer to take advantage of him.

"But we know our kanban customers will be around for a while, and our suppliers know the same about us," he says. The result is flexibility. "Up and down the supply chain, there's a lot more room for give and take." **MMS**

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### The Big Picture



PC-based information management has been a crucial component of Lemco-Miller's success, but the PC monitor isn't always the best place to display process data. On the shop floor, real-time scheduling information comes from a hard-copy system instead—a 20-foot-long document rack known as "The Wall." The system is simple, and crucial information flows from this simplicity.

The Wall offers a vertical column labeled for each machine. To assign a job to a machine, the sleeve containing that job's shopfloor documentation is inserted into that machine's column. The number of sleeves in the column show how much work is already waiting in line. And the machine's operator always knows what work to do next—typically, just the next job in the queue.

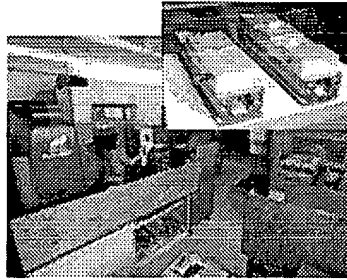
But The Wall also lets management determine at a glance how much work is in process. Where The Wall shows a gap, this is like a flashing light to signal that the shop has valuable capacity to sell. For example, "if I see there's no work lined up for a grinder, then I alert our sales rep," says David Miller Jr. "I tell him, 'Call your customers—if they have grinding work, we can turn it around today!'"

In the same way, The Wall tells the shop when to buy. With kanban suppliers able to ship custom raw material orders with as little as one day's lead, Lemco-Miller no longer has to pay to hold inventory ordered even a short time in advance. Instead, the shop estimates when a job will go to the machine by counting the jobs ahead of it. If a job isn't close to the top of the queue, then the raw material order can wait a little longer.

### Setting Up For Productive Short Runs

Smaller and smaller batches are less and less forgiving of setup time. There are simply fewer parts to absorb the setup cost.

Lemco-Miller keeps work moving across its machining centers by investing heavily in efficient fixture tooling. This investment returns faster work flow—the most valuable payback, by Lemco-Miller's measure.



The typical machining center job uses custom tooling plates to lock vises repeatably into place. Quick-change vises (from [Chick Machine Tool](#), Warrendale, Pennsylvania) in turn get custom-machined jaws to permit drop-in loading of the part.

When this building-block approach is combined with a two-pallet machining center, the combination can reduce setup time to effectively nil. The

operator performs the next job's setup on one pallet, entirely while the other pallet still has the current job under the spindle. The same approach saves labor costs, too. By changing workpieces or setups as needed on the secondary pallets, a single operator often can keep spindles cutting on two of the dual-pallet machines.

### Fixture Library

Kanban jobs and even repeat non-kanban jobs get custom-machined fixture tooling. But with well over 100 of the shop's part numbers assigned such tooling, fixture proliferation is a danger. The savings at the machine might be lost if the operator has to search for the right tooling before he can begin the job.

Lemco-Miller combats this delay using racks of numbered bins. All of the fixture tooling needed for a particular job comes out of the appropriate bin when it's time to run that job, and goes back to the bin when the job is complete. An index on the side of one rack matches jobs to bins by customer name and part number, so the operator can find the right tooling quickly.

### Getting The Part Into The PC

Not every job is a repeat. Lemco-Miller also does a sizable business in one-time orders for parts it has never seen before.

For these jobs, inputting part geometry from blueprint to CAM software can compromise much of the efficiency of the process. The company has made several changes to streamline this step. One of these is a switch to software with solid modeling capability (from [Gibbs and Associates](#), Moorpark, California). This software lets programmers create shapes efficiently by adding and subtracting on-screen solid bodies, in place of the traditional and more time-consuming approach of building each feature one point or line at a time.

Direct electronic input would be even more efficient, and Lemco-Miller is ready now to receive part information in this form. As yet, however, most customers still prefer to send their designs on paper.

### Faster First-Off Inspection

First-off inspection used to be the job of the quality assurance department, but that sometimes left operators waiting for QA results. Now, an inspection center on the shop floor lets operators measure their own first-off parts.

### Next Up: T ol C ntrol

"Tool control is a problem in any job shop," says David Miller Jr., and Lemco-Miller is no exception. The shop found its stock of cutting tools to be the most difficult supply inventory to tame. This inventory is the least centralized. Some component of the shop's stock of cutting tools can be found in one or more drawers of almost any toolbox in the shop.

Taming this inventory demanded several steps. But the most ambitious of these was to give the tool supplier an intimate role in the process. Where other kanban suppliers can only strive to function like in-house departments, the tool supplier is one in fact. Lemco-Miller rents space in its own shop to this supplier, which not only stores part of its inventory there, but also allocates an employee to managing the shop's tools on-site and gathering the tools necessary for each job.

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USPT	118 and 119	17	<a href="#">L21</a>
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USPT	(part or parts Or inventory or inventories or material\$1) near (managing or management)	1341	<a href="#">L19</a>
USPT	(part or parts Or inventory or inventories or material\$1) near (ordering or requisition\$3)	246	<a href="#">L18</a>
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USPT	parts adj ordering	46	<u>L2</u>
USPT	parts near ordering	110	<u>L1</u>



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Set	Items	Description
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S4	767767	RELATED OR RELATIONAL OR RDBMS OR RELATIONAL()DATABASE()MA- NAGEMENT()SYSTEM?
S5	16019	TREE(3N)STRUCTUR? OR HIERARCH?
S6	476494	DOMAIN? OR FUNCTION? OR DEVELOPMENT?(3N) (LEVEL? OR STEPS OR PHASES OR MODULE?)
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S20	22537	(S10 OR S11 OR S12) (S)S13(S) (S14 OR S15)
S21	0	S17(S)S18(S)S19(S)S20
S22	11	S17(S)S18
S23	2	S22(S)S19
S24	2	RD S23 (unique items)
S25	1210	S17(S)S19
S26	95	S25(10N)S20
S27	6	S26(S)S16
S28	6121	S1(3N)S2(5N)S7(3N)S8
S29	449	S28(3N)S9
S30	37	S29(3N)S13
S31	12	S30(5N) (S12 OR S14 OR S15)

b

File 275:Gale Group Computer DB(TM) 1983-2000/May 09  
 (c) 2000 The Gale Group  
 File 621:Gale Group New Prod.Annou.(R) 1985-2000/May 09  
 (c) 2000 The Gale Group  
 File 636:Gale Group Newsletter DB(TM) 1987-2000/May 09  
 (c) 2000 The Gale Group

Set	Items	Description
S1	980710	INVENTOR? OR LIST? OR CATALOG? OR CATALOGUE? OR REGISTER?
S2	3009189	SUPPLIES OR STOCK OR ITEMS OR PRODUCT?
S3	1256195	(PLURAL? OR MANY OR SEVERAL OR MULTI OR MULTIPLE OR NUMEROUS OR DISTRIBUT?) (3N) (COMPUTER? ? OR SERVER ? ?) OR NETWORK?
S4	640194	RELATED OR RELATIONAL OR RDBMS OR RELATIONAL() DATABASE() MANAGEMENT() SYSTEM?
S5	28719	TREE(3N) STRUCTUR? OR HIERARCH?
S6	541278	DOMAIN? OR FUNCTION? OR DEVELOPMENT?(3N) (LEVEL? OR STEPS OR PHASES OR MODULE?)
S7	3322153	PLAN? OR SCHEDUL? OR MANAG? OR DIRECT?
S8	2003063	MACHINING OR MANUFACT? OR PRODUCTION OR PRODUCING
S9	1942647	PARTS OR COMPONENT? OR SEGMENT? ? OR PIECE? ? OR PORTION? ? OR SECTION? ? OR PART OR UNIT? ?
S10	1448903	STATUS OR SIZE OR NUMBER? OR AMOUNT
S11	1649285	EXPANSION? OR EXPAND? OR ADDITIONAL OR ADDED OR EXPEND?
S12	1220813	FORWARD OR DELIVER? OR SEND? OR SENT?
S13	1008265	ORDER? OR REQUEST? OR REQUISITION?
S14	307601	STOPPED OR HALT? OR STOP OR CANCEL? OR REMIT? OR SUSPEND? - OR INTERRUPT?
S15	859661	PREPAR? OR READY OR START OR ISSUING
S16	39806	(AUTOMATIC? OR SIMULTAN? OR DYNAMIC OR REAL() TIME OR CURRENT? OR PRESENT? OF INSTANT? OR IMMEDIAT?) (3N) (UPDAT? OR CHANG? OR MODIF?)
S17	40324	S1(S) S2(S) (S3 OR S4)
S18	3815	S5(S) S6
S19	90436	S7(S) S8(S) S9
S20	25787	(S10 OR S11 OR S12) (S) S13(S) (S14 OR S15)
S21	2	S17(S) S18(S) S19(S) S20
S22	46	S17(S) S18
S23	12	S22(S) S19
S24	11	RD S23 (unique items)
S25	1826	S17(S) S19
S26	224	S25(10N) S20
S27	7	S26(S) S16
S28	4363	S1(3N) S2(5N) S7(3N) S8
S29	315	S28(3N) S9
S30	31	S29(3N) S13
S31	8	S30(5N) (S12 OR S14 OR S15)
S32	6	RD S31 (unique items)
S33	4	S32 NOT (PY=>1997 OR PD=>970728)

File 9:Business & Industry(R) Jul/1994-2000/May 09  
 (c) 2000 Resp. DB Svcs.  
 File 15:ABI/INFORM(R) 1971-2000/May 08  
 (c) 2000 Bell & Howell  
 File 20:World Reporter 1997-2000/May 09  
 (c) 2000 The Dialog Corporation plc  
 File 813:PR Newswire 1987-1999/Apr 30  
 (c) 1999 PR Newswire Association Inc  
 File 623:Business Week 1985-2000/Apr W5  
 (c) 2000 The McGraw-Hill Companies Inc  
 File 624:McGraw-Hill Publications 1985-2000/May 04  
 (c) 2000 McGraw-Hill Co. Inc

venl

Set	Items	Description
S1	1935015	INVENTOR? OR LIST? OR CATALOG? OR CATALOGUE? OR REGISTER?
S2	5573807	SUPPLIES OR STOCK OR ITEMS OR PRODUCT?
S3	1389134	(PLURAL? OR MANY OR SEVERAL OR MULTI OR MULTIPLE OR NUMERO- US OR DISTRIBUT?) (3N) (COMPUTER? ? OR SERVER ? ?) OR NETWORK?
S4	47694	TREE(3N) STRUCTUR? OR HIERARCH?
S5	910292	DOMAIN? OR FUNCTION? OR DEVELOPMENT?(3N) (LEVEL? OR STEPS OR PHASES OR MODULE?) OR DATABASE? ?
S6	6195854	PLAN OR SCHEDUL? OR MANAG? OR DIRECT?
S7	2476637	MACHINING OR MANUFACT? OR PRODUCTION OR PRODUCING
S8	4132379	PARTS OR COMPONENT? OR SEGMENT? ? OR PIECE? ? OR PORTION? ? OR SECTION? ? OR PART OR UNIT? ?
S9	3163470	STATUS OR SIZE OR NUMBER? OR AMOUNT
S10	3188747	EXPANSION? OR EXPAND? OR ADDITIONAL OR ADDED
S11	2100119	ORDER? OR REQUEST? OR REQUISITION?
S12	939018	STOPPED OR HALT? OR STOP OR CANCEL? OR REMIT? OR SUSPEND? - OR INTERRUPT?
S13	2097444	PREPAR? OR READY OR START OR ISSUING
S14	59648	(AUTOMATIC? OR SIMULTAN? OR DYNAMIC OR REAL() TIME OR CURRE- NT? OR PRESENT? OF INSTANT? OR IMMEDIAT?) (3N) (UPDAT? OR CHANG? OR MODIF?)
S15	1418	S1(S) S2(S) S3(S) S8(S) S11
S16	561230	S7(S) S6
S17	7443	S4(S) S5
S18	7157	S9(S) S10(S) S12
S19	0	S15(S) S16(S) S17(S) S18
S20	511	S15(S) S16
S21	29	S20(S) S18
S22	1	S21 NOT (PY=>1997 OR PD=>970728)
S23	160083	S1(3N) S2
S24	3285	S9(S) S10(3N) S11
S25	11397	S6(3N) S7(5N) S8
S26	0	S23(S) S24(S) S25
S27	35	S23(S) S24
S28	4	S27 NOT (PY=>1997 OR PD=>970728)
S29	4	RD S28 (unique items)
S30	4	S29 NOT S22
S31	204	S23(S) S25
S32	29	S31(10N) S11
S33	12	S32 NOT (PY=>1997 OR PD=>970728)
S34	12	S33 NOT (S22 OR S30)
S35	12	RD S34 (unique items)

E

File 9:Business & Industry(R) Jul/1994-2000/May 09  
 (c) 2000 Resp. DB Svcs.  
 File 15:ABI/INFORM(R) 1971-2000/May 08  
 (c) 2000 Bell & Howell  
 File 20:World Reporter 1997-2000/May 09  
 (c) 2000 The Dialog Corporation plc  
 File 813:PR Newswire 1987-1999/Apr 30  
 (c) 1999 PR Newswire Association Inc  
 File 623:Business Week 1985-2000/Apr W5  
 (c) 2000 The McGraw-Hill Companies Inc  
 File 624:McGraw-Hill Publications 1985-2000/May 04  
 (c) 2000 McGraw-Hill Co. Inc

Set	Items	Description
S1	1935015	INVENTOR? OR LIST? OR CATALOG? OR CATALOGUE? OR REGISTER?
S2	5573807	SUPPLIES OR STOCK OR ITEMS OR PRODUCT?
S3	1389134	(PLURAL? OR MANY OR SEVERAL OR MULTI OR MULTIPLE OR NUMERO- US OR DISTRIBUT?) (3N) (COMPUTER? ? OR SERVER ? ?) OR NETWORK?
S4	967954	RELATED OR RELATIONAL OR RDBMS OR RELATIONAL()DATABASE()MA- NAGEMENT()SYSTEM?
S5	47694	TREE(3N)STRUCTUR? OR HIERARCH?
S6	700269	DOMAIN? OR FUNCTION? OR DEVELOPMENT?(3N) (LEVEL? OR STEPS OR PHASES OR MODULE?)
S7	7441278	PLAN? OR SCHEDUL? OR MANAG? OR DIRECT?
S8	2476637	MACHINING OR MANUFACT? OR PRODUCTION OR PRODUCING
S9	4132379	PARTS OR COMPONENT? OR SEGMENT? ? OR PIECE? ? OR PORTION? ? OR SECTION? ? OR PART OR UNIT? ?
S10	3163470	STATUS OR SIZE OR NUMBER? OR AMOUNT
S11	3519715	EXPANSION? OR EXPAND? OR ADDITIONAL OR ADDED OR EXPEND?
S12	2484246	FORWARD OR DELIVER? OR SEND? OR SENT?
S13	2100119	ORDER? OR REQUEST? OR REQUISITION?
S14	939018	STOPPED OR HALT? OR STOP OR CANCEL? OR REMIT? OR SUSPEND? - OR INTERRUPT?
S15	2097444	PREPAR? OR READY OR START OR ISSUING
S16	59648	(AUTOMATIC? OR SIMULTAN? OR DYNAMIC OR REAL()TIME OR CURRE- NT? OR PRESENT? OF INSTANT? OR IMMEDIAT?) (3N) (UPDAT? OR CHANG? OR MODIF?)
S17	53076	S1(S)S2(S) (S3 OR S4)
S18	5861	S5(S)S6
S19	195234	S7(S)S8(S)S9
S20	48887	(S10 OR S11 OR S12) (S)S13(S) (S14 OR S15)
S21	1	S17(S)S18(S)S19(S)S20
S22	40	S17(S)S18
S23	12	S22(S)S19
S24	12	RD S23 (unique items)
S25	2737	S17(S)S19
S26	194	S25(10N)S20
S27	4	S26(S)S16
S28	4	RD S27 (unique items)
S29	10642	S1(3N)S2(5N)S7(3N)S8
S30	768	S29(3N)S9
S31	108	S30(3N)S13
S32	21	S31(5N) (S12 OR S14 OR S15)
S33	21	S32 NOT (S21 OR S24 OR S28)
S34	20	RD S33 (unique items)

File 634:San Jose Mercury News Jun 1985-2000/May 04

(c) 2000 San Jose Mercury News

File 810:Business Wire 1986-1999/Feb 28

(c) 1999 Business Wire

File 148:Gale Group Trade & Industry DB 1976-2000/May 09

(c)2000 The Gale Group

Set	Items	Description
S1	1611982	INVENTOR? OR LIST? OR CATALOG? OR CATALOGUE? OR REGISTER?
S2	4451706	SUPPLIES OR STOCK OR ITEMS OR PRODUCT?
S3	1230195	(PLURAL? OR MANY OR SEVERAL OR MULTI OR MULTIPLE OR NUMERO- US OR DISTRIBUT?) (3N) (COMPUTER? ? OR SERVER ? ?) OR NETWORK?
S4	989481	RELATED OR RELATIONAL OR RDBMS OR RELATIONAL() DATABASE() MA- NAGEMENT() SYSTEM?
S5	39594	TREE(3N) STRUCTUR? OR HIERARCH?
S6	627930	DOMAIN? OR FUNCTION? OR DEVELOPMENT?(3N) (LEVEL? OR STEPS OR PHASES OR MODULE?)
S7	5989508	PLAN? OR SCHEDUL? OR MANAG? OR DIRECT?
S8	2349215	MACHINING OR MANUFACT? OR PRODUCTION OR PRODUCING
S9	3125274	PARTS OR COMPONENT? OR SEGMENT? ? OR PIECE? ? OR PORTION? ? OR SECTION? ? OR PART OR UNIT? ?
S10	2321997	STATUS OR SIZE OR NUMBER? OR AMOUNT
S11	2539108	EXPANSION? OR EXPAND? OR ADDITIONAL OR ADDED OR EXPEND?
S12	1890317	FORWARD OR DELIVER? OR SEND? OR SENT?
S13	1353770	ORDER? OR REQUEST? OR REQUISITION?
S14	650877	STOPPED OR HALT? OR STOP OR CANCEL? OR REMIT? OR SUSPEND? - OR INTERRUPT?
S15	1370488	PREPAR? OR READY OR START OR ISSUING
S16	54408	(AUTOMATIC? OR SIMULTAN? OR DYNAMIC OR REAL() TIME OR CURRE- NT? OR PRESENT? OF INSTANT? OR IMMEDIAT?) (3N) (UPDAT? OR CHANG? OR MODIF?)
S17	37131	S1(S) S2(S) (S3 OR S4)
S18	4424	S5(S) S6
S19	120325	S7(S) S8(S) S9
S20	27896	(S10 OR S11 OR S12) (S) S13(S) (S14 OR S15)
S21	0	S17(S) S18(S) S19(S) S20
S22	24	S17(S) S18
S23	3	S22(S) S19
S24	3	RD S23 (unique items)
S25	999	S17(S) S19
S26	76	S25(10N) S20
S27	2	S26(S) S16
S28	10620	S1(3N) S2(5N) S7(3N) S8
S29	761	S28(3N) S9
S30	103	S29(3N) S13
S31	22	S30(5N) (S12 OR S14 OR S15)
S32	21	RD S31 (unique items)
S33	19	S32 NOT (PY=>.997 OR PD=>970728)
S34	19	S33 NOT (S24 OR S27)

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Terms	Documents
118 and 120	17

Database: US Patents Full-Text Database118 and 120

Refine Search:

**Search History**

<u>DB Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
USPT	118 and 120	17	<a href="#">L22</a>
USPT	118 and 119	17	<a href="#">L21</a>
USPT	(part or parts 0r inventory or inventories or material\$1) near (management)	1209	<a href="#">L20</a>
USPT	(part or parts 0r inventory or inventories or material\$1) near (managing or management)	1341	<a href="#">L19</a>
USPT	(part or parts 0r inventory or inventories or material\$1) near (ordering or requisition\$3)	246	<a href="#">L18</a>
USPT	17 or 112	1102	<a href="#">L17</a>
USPT	17 near 112	0	<a href="#">L16</a>
USPT	17 and 112	9	<a href="#">L15</a>
USPT	17 adj 112	0	<a href="#">L14</a>
USPT	17 adj 17	0	<a href="#">L13</a>
USPT	(parts or inventory) near (ordering)	148	<a href="#">L12</a>
USPT	5047959.dwku.	1	<a href="#">L11</a>
USPT	5047959.dwku.	1	<a href="#">L10</a>
USPT	11 and 17	6	<a href="#">L9</a>
USPT	17 and domain\$1	98	<a href="#">L8</a>
USPT	(parts or inventory or inventories) near (management)	963	<a href="#">L7</a>
USPT	parts near management	413	<a href="#">L6</a>
USPT	parts near manag\$7	744	<a href="#">L5</a>
USPT	12 and domain\$1	9	<a href="#">L4</a>
USPT	11 and 12	22	<a href="#">L3</a>

USPT	11 and domain\$1	52	<u>L3</u>
USPT	parts adj ordering	46	<u>L2</u>
USPT	parts near ordering	110	<u>L1</u>

5/9-10

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## Search Results -

Terms	Documents
14 and module\$1	38

Database: US Patents Full-Text Database

Refine Search:

14 and module\$1

## Search History

<u>DB Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
USPT	14 and module\$1	38	<u>L5</u>
USPT	(parts adj order\$3) and (tree\$1 or hierarchic\$3)	138	<u>L4</u>
USPT	11 and (order or orders or ordering or ordered)	1	<u>L3</u>
USPT	11 and hierarchical	1	<u>L2</u>
USPT	5216612.pn.	1	<u>L1</u>



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Entry 1 of 9

File: USPT

Dec 28, 1999

US-PAT-NO: 6009406

DOCUMENT-IDENTIFIER: US 6009406 A

TITLE: Methodology and computer-based tools for re-engineering a custom-engineered product line

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
------	-------	----------	-------	--------	----------------	------	-----------	--------	------	-------

☐ 2. Document ID: US 6003012 A

Entry 2 of 9

File: USPT

Dec 14, 1999

US-PAT-NO: 6003012

DOCUMENT-IDENTIFIER: US 6003012 A

TITLE: Methodology and computer-based tools for design, production and sales of customized switchboards

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
------	-------	----------	-------	--------	----------------	------	-----------	--------	------	-------

☐ 3. Document ID: US 5991728 A

Entry 3 of 9

File: USPT

Nov 23, 1999

US-PAT-NO: 5991728

DOCUMENT-IDENTIFIER: US 5991728 A

TITLE: Method and system for the tracking and profiling of supply usage in a health care environment

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
------	-------	----------	-------	--------	----------------	------	-----------	--------	------	-------

☐ 4. Document ID: US 5878401 A

Entry 4 of 9

File: USPT

Mar 2, 1999

US-PAT-NO: 5878401

DOCUMENT-IDENTIFIER: US 5878401 A

TITLE: Sales and inventory method and apparatus

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
------	-------	----------	-------	--------	----------------	------	-----------	--------	------	-------

☐ 5. Document ID: US 5877961 A

Entry 5 of 9

File: USPT

Mar 2, 1999

US-PAT-NO: 5877961  
DOCUMENT-IDENTIFIER: US 5877961 A  
TITLE: Electronic support work station and method of operation

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMMC	Image
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☐ 6. Document ID: US 5515266 A

Entry 6 of 9

File: USPT

May 7, 1996

US-PAT-NO: 5515266  
DOCUMENT-IDENTIFIER: US 5515266 A  
TITLE: Textile spinning machine management system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMMC	Image
------	-------	----------	-------	--------	----------------	------	-----------	--------	------	-------

☐ 7. Document ID: US 5216612 A

Entry 7 of 9

File: USPT

Jun 1, 1993

US-PAT-NO: 5216612  
DOCUMENT-IDENTIFIER: US 5216612 A  
TITLE: Intelligent computer integrated maintenance system and method

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMMC	Image
------	-------	----------	-------	--------	----------------	------	-----------	--------	------	-------

☐ 8. Document ID: US 5023438 A

Entry 8 of 9

File: USPT

Jun 11, 1991

US-PAT-NO: 5023438  
DOCUMENT-IDENTIFIER: US 5023438 A  
TITLE: Portable data input apparatus with different display modes

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMMC	Image
------	-------	----------	-------	--------	----------------	------	-----------	--------	------	-------

☐ 9. Document ID: US 4254329 A

Entry 9 of 9

File: USPT

Mar 3, 1981

US-PAT-NO: 4254329  
DOCUMENT-IDENTIFIER: US 4254329 A  
TITLE: Microfiche information retrieval and control system utilizing machine readable microfiche and visually readable microfiche

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMMC	Image
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Terms	Documents
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Display 10 Documents

including document number

9

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[Citation](#)
[Front](#)
[Review](#)
[Classification](#)
[Date](#)
[Reference](#)
[Claims](#)
[KMC](#)

## Document Number 2

Entry 2 of 9 *also 2 of 6*

File: USPT

Dec 14, 1999

US-PAT-NO: 6003012

DOCUMENT-IDENTIFIER: US 6003012 A

TITLE: Methodology and computer-based tools for design, production and sales of customized switchboards

DATE-ISSUED: December 14, 1999

### INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nick; Sascha	Chicago	IL	N/A	N/A

### ASSIGNEE INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Square D Company	Palatine	IL	N/A	N/A	02

APPL-NO: 8/ 986096

DATE FILED: December 5, 1997

INT-CL: [6] G06F 15/24

US-CL-ISSUED: 705/10; 705/1, 364/468.01

US-CL-CURRENT: 705/10; 700/95, 705/1

FIELD-OF-SEARCH: 705/1, 705/7, 705/8, 705/10, 705/29, 364/468.01, 364/468.03, 364/468.13, 364/468.14, 364/468.24, 364/468.02, 364/468.1, 364/468.19, 364/468.12

### REF-CITED:

#### U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>4203204</u>	May 1980	Murphy	29/703
<u>4310964</u>	January 1982	Murphy	29/469
<u>4332012</u>	May 1982	Sekine et al.	364/468
<u>4472783</u>	September 1984	Johnstone et al.	364/474
<u>4484289</u>	November 1984	Hemond	364/478
<u>4504919</u>	March 1985	Fujii et al.	364/478
<u>4509123</u>	April 1985	Vereen	364/300
<u>4591983</u>	May 1986	Bennett et al.	364/403
<u>4984155</u>	January 1991	Geier et al.	364/401
<u>5047959</u>	September 1991	Phillips et al.	364/521
<u>5121330</u>	June 1992	Blaha et al.	364/468
<u>5260866</u>	November 1993	Lisinski et al.	364/401
<u>5263164</u>	November 1993	Kannady et al.	395/700
<u>5287267</u>	February 1994	Jayaraman et al.	364/403

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"Switchboard Automatic Throwover System", Square D Co., Feb. 1998, pp. 1-4.

ART-UNIT: 275

PRIMARY-EXAMINER: MacDonald; Allen R.

ASSISTANT-EXAMINER: Meinecke-Diaz; Susanna

ATTY-AGENT-FIRM: Irfan; Kareem M. Golden; Larry I.

#### ABSTRACT:

An in-depth review of the switchboard business, including customer interviews, revealed that customer specifications were more complex than customer needs. Customer needs were quantified, and a reduced set of standard switchboard configuration classes was selected so that about 80% of customer orders based on actual customer needs could be satisfied by the standard switchboard configuration classes, and the remaining orders would be satisfied by custom designed switchboards. Major components in the standard switchboards were themselves standardized. A standard switchboard, for example, has a continuous current capacity of no more than 4000 Amps, a maximum voltage rating of 480 Vac, a short circuit current rating of no more than 200 kA, and an aluminum or copper bus. The manufacture of the standard switchboards was optimized for a one-day manufacturing cycle and separated from the manufacture of the custom designed switchboards. A sales office and manufacturing plant roll-out schedule was implemented and managed by computer-based spreadsheet tools. A switchboard configuration computer program module was designed and interfaced between a product selector and a materials management (MRP) system in order to automate the process of entering orders, designing standard switchboards, ordering parts, and scheduling assembly of standard switchboards.

69 Claims, 61 Drawing figures

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## Document Number 2

Entry 2 of 9

File: USPT

Dec 14, 1999

DOCUMENT-IDENTIFIER: US 6003012 A

TITLE: Methodology and computer-based tools for design, production and sales of customized switchboards

## ABPL:

An in-depth review of the switchboard business, including customer interviews, revealed that customer specifications were more complex than customer needs. Customer needs were quantified, and a reduced set of standard switchboard configuration classes was selected so that about 80% of customer orders based on actual customer needs could be satisfied by the standard switchboard configuration classes, and the remaining orders would be satisfied by custom designed switchboards. Major components in the standard switchboards were themselves standardized. A standard switchboard, for example, has a continuous current capacity of no more than 4000 Amps, a maximum voltage rating of 480 Vac, a short circuit current rating of no more than 200 kA, and an aluminum or copper bus. The manufacture of the standard switchboards was optimized for a one-day manufacturing cycle and separated from the manufacture of the custom designed switchboards. A sales office and manufacturing plant roll-out schedule was implemented and managed by computer-based spreadsheet tools. A switchboard configuration computer program module was designed and interfaced between a product selector and a materials management (MRP) system in order to automate the process of entering orders, designing standard switchboards, ordering parts, and scheduling assembly of standard switchboards.

## BSPR:

A switchboard configuration computer program module was designed in order to determine whether a customer specification could be satisfied by standard switchboard sections, and if not, to warn a sales engineer of a penalty associated with the required custom assembly, and to indicate why the specification could not be met by a standard switchboard. If the customer specification could be satisfied by one of the standard switchboard configuration classes, then the switchboard configuration module generated a specific switchboard design to meet the customer specification, including an assembly drawing and a bill of materials for the specific switchboard design. The switchboard product configuration module can generate about 300 switchboard configurations from the nineteen standard configuration classes. The switchboard configuration module provided a link between a product selector and a materials management (MRP) system, in order to automate the process of entering orders, designing standard switchboards, ordering parts, and scheduling assembly of standard switchboards.

## DEPR:

The MRP system program manages an inventory data base 229 and schedules the ordering of parts and the timing of manufacturing operations. The status of the parts inventory and the schedule for manufacturing operations can be reviewed by a MRP manager 230 at a computer terminal 231. The digital computer system 220 also is programmed with an order-to-payment system 232 that manages and automates all order entry, billing, invoicing, and shipping information processing for all standard as well as custom switchboard orders. The digital computer system 220

provides seamless integration of the order-to-payment functions with the functions of the product selector 223, the switchboard configuration program module 225, and the MRP system program 224.

CLPR:

14. The method as claimed in claim 13, wherein the integrated computer system automatically schedules manufacturing of standard switchboards and ordering of parts for the standard switchboards.

CLPR:

26. The method as claimed in claim 25, wherein the integrated computer system automatically schedules manufacturing of standard switchboards and ordering of parts for the standard switchboards.

CLPR:

44. The method as claimed in claim 43, wherein the digital computer system is programmed with a product selector program and a materials management system program, and the method further includes operating the digital computer system for entering the customer orders, automatically producing the manufacturing instructions for the standard switchboard design configurations, automatically ordering parts for the switchboards manufactured according to the manufacturing instructions for the standard switchboard design configurations, and automatically scheduling assembly of the switchboards manufactured according to the manufacturing instructions for the standard switchboard design configurations.

ORPL:

Robert M. Curtice, Product Structure Data Systems, "Production & Inventory Management--4th Qtr," Arthur D. Little, Inc., (1973) pp. 27-37.

ORPL:

Mather, H. F., "Design, Bills of Materials, and Forecasting--the Inseparable Threesome", Production and Inventory Management, First Quarter 1986, Journal of the American Production and Inventory Control Society, vol. 27, No. 1, pp. 90-107.

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## Document Number 3

Entry 3 of 9

File: USPT

Nov 23, 1999

US-PAT-NO: 5991728

DOCUMENT-IDENTIFIER: US 5991728 A

TITLE: Method and system for the tracking and profiling of supply usage in a health care environment

DATE-ISSUED: November 23, 1999

### INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
DeBusk; Brian C.	Clinton	TN	N/A	N/A
Shanks; Mark W.	Clinton	TN	N/A	N/A
Cofer; Michael C.	Knoxville	TN	N/A	N/A

### ASSIGNEE INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
DeRoyal Industries, Inc.	Powell	TN	N/A	N/A	02

APPL-NO: 8/ 846798

DATE FILED: April 30, 1997

INT-CL: [6] G06F 17/60

US-CL-ISSUED: 705/2; 705/7

US-CL-CURRENT: 705/2; 705/7

FIELD-OF-SEARCH: 705/2, 705/3, 705/7, 705/28, 705/29, 364/468.14, 364/468.22, 235/375, 235/385

### REF-CITED:

U.S. PATENT DOCUMENTS



PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>4737910</u>	April 1988	Kimbrow	N/A
<u>4987538</u>	January 1991	Johnson et al.	N/A
<u>5001630</u>	March 1991	Wiltfong	N/A
<u>5072383</u>	December 1991	Brimm et al.	N/A
<u>5235795</u>	August 1993	DeBusk	N/A
<u>5307261</u>	April 1994	Maki et al.	N/A
<u>5321605</u>	June 1994	Chapman et al.	N/A
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<u>5412576</u>	May 1995	Hansen	N/A
<u>5517405</u>	May 1996	McAndrew et al.	N/A
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<u>5671362</u>	September 1997	Cowe et al.	N/A
<u>5682728</u>	November 1997	DeBusk et al.	N/A
<u>5732401</u>	March 1998	Conway	N/A
<u>5752234</u>	May 1998	Withers	N/A

ART-UNIT: 274

PRIMARY-EXAMINER: Weinhardt; Robert A.

ATTY-AGENT-FIRM: Luedeka, Neely & Graham PC

#### ABSTRACT:

A method for tracking medical supply usage on a procedure level in a clinical setting. The method includes the steps of creating at least one procedural template comprising a list of anticipated supplies to be used during a given medical procedure, creating a recordation form from a given procedure based upon the procedural template, the form including at least a partial listing of the anticipated supplies to be used during the procedure based upon the procedural template, recording on the form actual usage of supplies during the procedure, and storing the procedural template and actual usage information in a retrievable manner for the purposes of analysis.

18 Claims, 33 Drawing figures

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## Document Number 3

Entry 3 of 9

File: USPT

Nov 23, 1999

DOCUMENT-IDENTIFIER: US 5991728 A

TITLE: Method and system for the tracking and profiling of supply usage in a health care environment

### BSPR:

In a further preferred embodiment of the present invention, the procedural template and recordation form are provided as electronic forms on a computer system to allow the information to be created, stored, analyzed and retrieved electronically. Additionally, in a preferred embodiment of the present invention, the resource usage information from any number of separately performed procedures may be recorded and stored to develop a historical database of resource consumption/usage. This historical database may be analyzed to predict future supply usage, minimized wasted resources, standardize procedural resource allocation, allow for just-in-time ordering, inventory control, or manufacturing practices or allow for increased accuracy in the cost recovery process.

### DEPR:

Additionally, the historical data will allow for the analysis of overall resource consumption for desired time periods. This information allows supply users, manufacturers and distributors to review historical usage and plan future production and inventory accordingly. In the current environment of just in time manufacturing and just in time shipping, such data, organized in accordance with the template and the recordation form, will allow such users of the information to properly determine how to schedule production, raw material orders, inventory management, delivery, etc. in order to most cost effectively provide the necessary products to the users.

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## Document Number 4

Entry 4 of 9

File: USPT

Mar 2, 1999

US-PAT-NO: 5878401

DOCUMENT-IDENTIFIER: US 5878401 A

TITLE: Sales and inventory method and apparatus

DATE-ISSUED: March 2, 1999

### INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Joseph; Joseph	Brooklyn	NY	11211	N/A

APPL-NO: 8/ 599184

DATE FILED: February 9, 1996

INT-CL: [6] G06F 17/60, G07G 1/14

US-CL-ISSUED: 705/22; 705/27

US-CL-CURRENT: 705/22; 705/27

FIELD-OF-SEARCH: 705/22, 705/21, 705/16, 705/26, 705/27

### REF-CITED:

#### U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>3757037</u>	September 1973	Bialek	N/A
<u>4737910</u>	April 1988	Kimbrow	N/A
<u>4814592</u>	March 1989	Bradt et al.	N/A
<u>4974196</u>	November 1990	Iwami et al.	N/A
<u>4982346</u>	January 1991	Girouard et al.	N/A
<u>4984155</u>	January 1991	Geier et al.	N/A
<u>4992940</u>	February 1991	Dworkin	N/A
<u>5032989</u>	July 1991	Tornetta	N/A
<u>5206804</u>	April 1993	Thies et al.	N/A
<u>5231566</u>	July 1993	Blutinger et al.	N/A
<u>5291395</u>	March 1994	Abecassis	N/A
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Stevens, Larry, "Point-of-Sale Inventory Systems: Now Ready for Small Businesses," Nation's Business, V.79, N.12, p. 41. Dec. 1991.

"Techno-Shop," Home Fashions Magazine, p. 18. Apr. 1993.

ART-UNIT: 271

PRIMARY-EXAMINER: Voelz; Emanuel Todd  
ASSISTANT-EXAMINER: Kalinowski; Alexander  
ATTY-AGENT-FIRM: Klein; David M. Shearman & Sterling

ABSTRACT:

An apparatus that displays alternative items for items that are out of stock in a store or the like. A request for an item is entered into a sales computer. The computer determines from a database whether the requested item is available. If the item is unavailable, the computer determines alternative items that are available for sale. These available alternative items are interactively displayed for the customer. The alternative items are determined from an alternative item database wherein each item is categorized with alternative items. A mass data storage device stores an image of each alternative item. A method of determining and displaying alternative items includes the steps of: inputting a request for an item; determining the availability of the requested item and alternative items for the requested item if it is unavailable; and interactively displaying the alternative items. An electronic monitoring apparatus for a store includes: a sales computer for entering sales requests; a database for storing the request and associated information on each item ordered; a stock area computer, wherein the request is transmitted from the sales computer to the stock area computer; and a report generation system capable of generating a report selected from the group consisting of Items Requested, Items Delivered, Items Returned, Items Sold, Requests by SKU, Sales Person Report, Sales Person Summary Report, Time of Requests Analysis, and Time of Sales Analysis.

6 Claims, 15 Drawing figures

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## Document Number 4

Entry 4 of 9

File: USPT

Mar 2, 1999

DOCUMENT-IDENTIFIER: US 5878401 A

TITLE: Sales and inventory method and apparatus

### BSPR:

The present invention relates generally to sales and inventory management systems, and more particularly to a sales system that enables customers to view alternative items in the event the customer orders an item that is out of stock, and to a sales and inventory system that enables tracking of requests for items in a store in which the sales floor is remote from the stockroom.

### DEPR:

As shown in FIG. 6, a Request Status Report menu may be accessed by the store manager from which a number of different types of reports may be generated using the REQUEST database on the various aspects of the operation of the sales floor and stockroom. Generally speaking, each of the reports described herein may be generated for any desired period of time. FIG. 7 shows a report that may be generated showing the items that were requested during any desired time frame. As indicated above, when an item is out of stock the Alternative Style Selection System is activated. Nonetheless, when the initial request for the item out of stock is entered into the computer, this request is recorded in the REQUEST database. In this manner, customer interest in out-of-stock items may be recorded. Therefore, even though the SIZE database indicates that an item is out of inventory, the Items Requested Report (FIG. 7) will indicate customer interest in such items for cross-checking, ordering and inventory control purposes.

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## Document Number 5

Entry 5 of 9

File: USPT

Mar 2, 1999

US-PAT-NO: 5877961

DOCUMENT-IDENTIFIER: US 5877961 A

TITLE: Electronic support work station and method of operation

DATE-ISSUED: March 2, 1999

### INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Moore; William C.	Waynesboro	VA	N/A	N/A

### ASSIGNEE INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Genicom Corporation	Waynesboro	VA	N/A	N/A	02

APPL-NO: 8/ 719009

DATE FILED: September 24, 1996

INT-CL: [6] G06F 19/00, G06G 7/64, G06G 7/66

US-CL-ISSUED: 364/474.22; 364/474.24, 364/468.12, 364/468.17, 364/579, 395/51, 395/68 , 395/77, 705/1, 705/29

US-CL-CURRENT: 700/180; 345/433, 700/110, 700/182, 702/123, 702/183, 702/19, 705/1, 705/29, 706/46, 706/48, 706/58, 706/61

FIELD-OF-SEARCH: 364/474.22, 364/474.37, 364/468.17, 364/490, 364/507, 364/579, 364/474.23, 364/474.24, 364/474.16, 364/468.16, 364/468.12, 364/468.28, 395/51, 395/61, 395/68, 395/77, 395/916, 705/1, 705/29, 371/24, 371/26, 707/104, 707/103, 707/102

REF-CITED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>4396977</u>	August 1983	Slater et al.	364/188
<u>4469553</u>	September 1984	Whitehead	156/627
<u>4709337</u>	November 1987	Knapp et al.	364/468
<u>4796206</u>	January 1989	Boscove et al.	364/551.01
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<u>5239487</u>	August 1993	Horejsi et al.	364/552
<u>5325582</u>	July 1994	Glaser et al.	29/840

ART-UNIT: 276

PRIMARY-EXAMINER: Elmore; Reba I.

ASSISTANT-EXAMINER: Patel; Ramesh

ATTY-AGENT-FIRM: Nixon & Vanderhye

#### ABSTRACT:

A computer-controlled electronic support system includes an electronic work station with a display screen and pointing device coupled to a central processing unit where an operator performs an operation on a workpiece. The workpiece operation begins by an operator entering and processing a work order identifier. In response to that work order identifier, a corresponding workpiece identifier is generated. Image, graphic, and text information associated with that workpiece identifier is retrieved from memory. A user-friendly, menu-based display screen provides a plurality of entries with each entry having menu options associated with the workpiece identifier. Advantageously, an operator can select any one of several different images of the workpiece simply by selecting a menu option. Not only is the particular workpiece image displayed, but also a plurality of graphics associated with that workpiece image. The graphics may include for example icons and "hot spot" areas of the displayed image, any one of which may be selected by the operator simply pointing to the graphic on the display screen. In response, information is displayed relating to the workpiece corresponding to the selected graphic that will assist the operator in performing a particular support operation on the workpiece, e.g., maintenance, servicing, testing, repair, etc.

49 Claims, 14 Drawing figures

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## Document Number 5

Entry 5 of 9

File: USPT

Mar 2, 1999

DOCUMENT-IDENTIFIER: US 5877961 A

TITLE: Electronic support work station and method of operation

## DEPR:

The database tables employed in the present invention also advantageously use similar relational database techniques to link work order, workpiece number, part numbers, and serial numbers to image information, test information, tracking information, auditing information, documentation, engineering, auditing, inventory management, and other information. In this way, the present invention advantageously provides an integrated information environment with no redundant data. The database structures provide for comprehensive analysis and reporting with minimum data storage requirements.

## DEPR:

An application program in the work station computer 50 then initiates several database queries of information "keyed" to the ID number via database server 20 to retrieve from the various database tables described above the corresponding frame, picture, and component database table and image file information and store it in the work station data storage 54 in preparation for the maintenance, repair, testing, or other service to be performed on the current workpiece for this work order (block 110). In addition, work station computer 50 sends out commands to main computer 16 to retrieve work order repair history, audit log, troubleshooting information, testing and other instructions/data linked to this workpiece ID (block 112). These additional requests are executed using queries against the database server 20. In general, much of the accessed information may be "queried" from the database server 20. Example exceptions might include manufacturing transaction system related activities such as work order validation and parts ordering. These sets of related information are used as needed during service/repair/test/audit activities. This information may be loaded, even though it may not be needed initially, in order to minimize the number of requests/queries being made against the database server 20. This approach creates a burst of information flow and then relieves the server until updates are required.

## DEPR:

If an operator determines that a new part is necessary for example to repair the workpiece, several methods are available for ordering that part. First, the operator may point to the hot spot corresponding to the part to be ordered using the mouse 66 and click once on the hot spot. The selected part is then ordered by clicking a work order menu option available on the main menu screen. Second, the operator may point to the hot spot corresponding to the part to be ordered and double click the mouse 66 to initiate the parts order process. An operator may also wish to list all of the valid parts that can be selected for this particular workpiece. To do so, the operator selects the menu option "list all valid parts" from the order sub-menu. From that list, the operator selects the part option corresponding to the desired part and double clicks that selection. The operator can verify that the part selected is in fact the one the operator desired to order by having the CPU 52 display the image of the part selected along with its corresponding hot spot number. If the



hot spot number is different from that shown in the original image, the operator can easily detect that the wrong part was selected from the parts list.

DEPR:

The above description has been provided with respect to one example embodiment of the present invention. However, numerous modifications and substitutions may be made without deviating from the scope of the invention. For example, the electronic maintenance, repair, testing, and servicing system 10 shown in FIG. 1 disclosed in the context of a network. The present invention may also be implemented in a stand alone work station. In a stand-alone implementation, the necessary database, document, and image files would be stored at the work station itself. Of course, the work station would not interact with the transaction server which means that some functions would not be performed as described above, e.g., work order validation and parts ordering. However, desired parts could be queried into a file for transmission or delivery to a supply parts source. As mentioned above, the present invention may also be programmed to perform various applications in addition to repair, maintenance, testing, and servicing. The types of hot spots and icons described in the above printer example are in no way exhaustive or limiting. Indeed, other text, graphics, or combinations thereof may be used. Therefore, the invention has been disclosed by way of illustration and not limitation, and reference should be made to the following claims to determine the scope of the invention.

DEPV:

Simplified and coordinated inventory, parts ordering, and other order processing transactions, including automatic collection and maintenance of labor history records, repair history records, audit history records, and other useful informational records.

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## Document Number 6

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File: USPT

May 7, 1996

US-PAT-NO: 5515266

DOCUMENT-IDENTIFIER: US 5515266 A

TITLE: Textile spinning machine management system

DATE-ISSUED: May 7, 1996

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Meyer; Urs	CH-8172 Niederglatt	N/A	N/A	CHX

APPL-NO: 8/ 134932

DATE FILED: October 12, 1993

## PARENT-CASE:

CROSS-REFERENCE TO RELATED APPLICATIONS This is a continuation-in-part of U.S. patent application Ser. No. 07/927,307 filed Nov. 20, 1992 for Process Control In The Textile Plant and a continuation-in-part of U.S. patent application Ser. No. 07/852,153 filed May 28, 1992 now abandoned for Processes For Finding The Material Flow In A Textile Processing Plant, the disclosures of which are incorporated herein by reference.

## FOREIGN-APPL-PRIORITY-DATA:

## FOREIGN-PRIORITY:

FOREIGN-PRIORITY-APPL-NO: CH 03183/92

FOREIGN-PRIORITY-APPL-DATE: October 12, 1992

INT-CL: [6] G05B 9/02

US-CL-ISSUED: 364/184; 364/470, 57/264

US-CL-CURRENT: 700/79; 57/264

FIELD-OF-SEARCH: 364/470, 364/184-188, 57/264, 57/265, 57/263, 19/90, 19/105, 28/185, 28/241, 28/248, 395/902, 395/903, 395/904, 395/906, 395/912, 395/914, 377/16

## REF-CITED:

## U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>4534042</u>	August 1985	Marsicek et al.	377/16
<u>4660365</u>	April 1987	Raasch	57/264
<u>4835699</u>	May 1989	Mallard	364/470
<u>4843808</u>	July 1989	Ruge et al.	57/264
<u>4876769</u>	October 1989	Schlopfer et al.	19/105
<u>4916625</u>	April 1990	Davidson et al.	364/470
<u>4928353</u>	May 1990	Demuth et al.	19/105
<u>4940367</u>	July 1990	Staheli et al.	19/105
<u>5046013</u>	September 1991	Ueda et al.	364/470
<u>5161111</u>	November 1992	Oehler et al.	364/470
<u>5229988</u>	July 1993	Barea	364/470

# FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY
0410429A1	January 1991	EP
0426979A2	May 1991	EP
4031419A1	April 1991	DE
4137742A1	May 1992	DE

ART-UNIT: 244

PRIMARY-EXAMINER: Trammell; James P.

ABSTRACT:

A machine-management system for a spinning machine comprising a data acquisition file in which selected components of the machine are listed and the instantaneous condition for each selected component is stored in the file.

21 Claims, 12 Drawing figures

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## Document Number 6

Entry 6 of 9

File: USPT

May 7, 1996

DOCUMENT-IDENTIFIER: US 5515266 A

TITLE: Textile spinning machine management system

### BSPR:

An interface can be provided which enables communication with a spare part management system in order that decisions concerning the spare part provision as well as decisions concerning maintenance measures can be made based on the spare part inventory or need.

### DEPR:

FIG. 8 shows the above mentioned files, and modules, in combination with a machine control computer 582, so here the files and modules are integrated into the master process control computer 340, FIG. 7. This computer 340 also has an interface 42 with a computer (not shown) which controls the spare part management and/or is stored with data concerning the availability of spare parts. A diagnosis or an analysis of the module 26 or 28 is done at a respective machine via its operator interface 592, where the maintenance person (or team) is called by the process control computer 340 via a calling system described, for example, in PCT-WO91/16381 at this machine. Via operator interface 592 communication between the staff and the process control computer 340 can take place. The staff may also be equipped, if necessary, with portable devices (FIG. 6) which can also communicate with the process control computer 340 via the networking 350 which possibly is even enabled by the "unloading" determined module from the control computer 340 to the device.

### DEPR:

Thirdly, this file is available to an expert system for maintenance. This second expert system continuously tracks the condition of the component and supplies the operator with information concerning upcoming maintenance works. During the course of these works the expert system accepts the operation support in the manner of an electronic maintenance instruction. For this purpose the file "repair support" is at its disposal. The connection of this file via an interface to the spare part ordering system is the logical consequence. It is this support of the expert system "maintenance" with a file for the spare part availability and the preset times for services that enable a reasonable planning ahead of staff and material.

### CLPR:

8. A system as claimed in claim 7 wherein the system comprises an interface for communication with a spare part management system.

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Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMIC
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## Document Number 7

Entry 7 of 9 *also 5 db 6*

File: USPT

Jun 1, 1993

US-PAT-NO: 5216612

DOCUMENT-IDENTIFIER: US 5216612 A

TITLE: Intelligent computer integrated maintenance system and method  
DATE-ISSUED: June 1, 1993

### INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cornett; Rickey R.	Dobson	NC	N/A	N/A
Walsh; R. Victor	Winston-Salem	NC	N/A	N/A
Willard; Ronald S.	Winston-Salem	NC	N/A	N/A
Johnston; Michael Z.	Kernersville	NC	N/A	N/A
Saluta; Jaime P.	Winston-Salem	NC	N/A	N/A
Tylak; Daniel J.	Lewisville	NC	N/A	N/A
Bird; Michael J.	Clemmons	NC	N/A	N/A

### ASSIGNEE INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
R. J. Reynolds Tobacco Company	Winston-Salem	NC	N/A	N/A	02

APPL-NO: 7/ 552728

DATE FILED: July 16, 1990

INT-CL: [5] G06F 15/46

US-CL-ISSUED: 364/468; 364/401

US-CL-CURRENT: 700/96; 705/29, 705/8

FIELD-OF-SEARCH: 364/468, 364/478, 364/401-403, 364/131-135, 364/550, 364/551.01, 364/551.02, 364/DIG.1, 364/DIG.2, 364/469-473

REF-CITED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>4073005</u>	February 1978	Parkin	364/200
<u>4087836</u>	May 1978	DeFoe	358/44
<u>4151590</u>	April 1979	Azegami	318/591
<u>4304001</u>	December 1981	Cope	371/8
<u>4346446</u>	August 1982	Erbstein et al.	364/551
<u>4383298</u>	May 1983	Huff et al.	N/A
<u>4457772</u>	July 1984	Haynes et al.	364/476
<u>4472783</u>	September 1984	Johnstone et al.	N/A
<u>4484270</u>	November 1984	Quernemoen et al.	364/200
<u>4495582</u>	January 1985	Dessert et al.	364/469
<u>4530134</u>	July 1985	Hosel	19/105
<u>4634572</u>	January 1987	Lichti	419/44
<u>4668026</u>	August 1987	Scribner et al.	340/572
<u>4675675</u>	June 1987	Corwin et al.	340/945
<u>4698766</u>	October 1987	Entwistle et al.	364/468
<u>4788531</u>	November 1988	Corwin et al.	340/945
<u>4803634</u>	February 1989	Ohno et al.	364/478
<u>4827423</u>	May 1989	Beasley et al.	364/468
<u>5089970</u>	February 1992	Lee et al.	364/468
<u>5146404</u>	September 1992	Calloway et al.	N/A

#### FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY
57-6958	January 1982	JP

#### OTHER PUBLICATIONS

Imaging System Bridges Gap in Maintenance Computerization, Maintenance Technology, Jul. 1990, pp. 75, 76 and 78.

ART-UNIT: 236

PRIMARY-EXAMINER: Ruggiero; Joseph

ATTY-AGENT-FIRM: Myers; Grover M. Bigel; Mitchell S.

#### ABSTRACT:

An intelligent computer integrated maintenance system and method includes an electronically stored parts manual which contains a hierarchical listing of all parts in production machines, and a maintenance operations computer controller which includes a maintenance schedule management subsystem, an engineering change control subsystem, a parts manual management subsystem and a spares inventory management subsystem. The maintenance schedule management subsystem obtains a schedule of actual and planned production, and groups maintenance activities in order to minimize lost production time. The engineering change control subsystem integrates engineering change activities with maintenance activities to maximize production time. The automated parts manual is also updated to account for engineering changes. The spare parts inventory management subsystem orders spare parts based on predicted maintenance rather than on prescribed inventory levels. Production efficiency is thereby maximized, as is the use of available maintenance manpower. Engineering changes are easily accommodated and spare parts inventory is kept to a minimum.

165 Claims, 48 Drawing figures

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Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC

## Document Number 7

Entry 7 of 9

File: USPT

Jun 1, 1993

DOCUMENT-IDENTIFIER: US 5216612 A

TITLE: Intelligent computer integrated maintenance system and method

### ABPL:

An intelligent computer integrated maintenance system and method includes an electronically stored parts manual which contains a hierarchical listing of all parts in production machines, and a maintenance operations computer controller which includes a maintenance schedule management subsystem, an engineering change control subsystem, a parts manual management subsystem and a spares inventory management subsystem. The maintenance schedule management subsystem obtains a schedule of actual and planned production, and groups maintenance activities in order to minimize lost production time. The engineering change control subsystem integrates engineering change activities with maintenance activities to maximize production time. The automated parts manual is also updated to account for engineering changes. The spare parts inventory management subsystem orders spare parts based on predicted maintenance rather than on prescribed inventory levels. Production efficiency is thereby maximized, as is the use of available maintenance manpower. Engineering changes are easily accommodated and spare parts inventory is kept to a minimum.

### BSPR:

The art has heretofore suggested adding a maintenance module to a computer integrated manufacturing system in order to integrate maintenance of the production machines into the computer integrated manufacturing system. For example, the Haynes et al. '772 patent noted above discloses a glassware production control system which also provides maintenance information. The Ohno et al. '634 patent noted above also describes a production process control computer which includes a materials and maintenance control subsystem. The materials and maintenance control subsystem controls the timing of parts replacement. The timing of parts replacement is calculated in advance from the cumulative total of the predicted life of consumable parts and operation time and displayed or printed so as to enable order placement for parts. The maintenance system includes a parts list file containing a list of all consumable parts in the system. The parts list file is updated by collecting information on the operation of the machine so that residual service lives of consumable parts may be calculated. When parts replacement is needed, the quantity of parts used for replacement is deducted from the stock volume in the parts inventory file. When the stock volume of parts in the parts inventory file becomes smaller than at the time of parts ordering, an order form slip is printed. In other words, a "point of ordering" system is provided. A running total of elapsed time is computed and compared with the durable life of parts so that the time and date of actual replacement can be calculated and a schedule of maintenance may thereby be derived.

### BSPR:

The need for an intelligent computer integrated maintenance system has become more pressing as the complexity of computer integrated manufacturing systems has increased. As the number of machines being controlled and the number of simultaneous manufacturing lines being controlled increases, it becomes difficult for a human to understand the overall work flow in sufficient detail to intelligently modify maintenance

instructions generated by a computer integrated maintenance system. Similarly, it is difficult for humans to assimilate all of the maintenance data and intelligently modify spare parts ordering instructions generated by a point of ordering system.

BSPR:

The intelligent computer integrated maintenance system also includes a maintenance operations computer controller which is connected to the electronically stored parts manual and is adapted to be connected to the master schedule file. According to the invention, the maintenance operations computer controller includes four subsystems: (1) a maintenance schedule management subsystem; (2) an engineering change control subsystem; (3) a parts manual management subsystem; and (4) a spares inventory management subsystem.

BSPR:

The intelligent computer integrated maintenance system of the present invention also allows iterative maintenance operations planning to be performed. For example, strategic planning of maintenance operations for a multi-year period may be performed in order to determine manpower requirements, spare parts requirements, and actual production capabilities which include maintenance time. Maintenance operations planning may also be performed for intermediate range periods such as a yearly period in order to determine parts ordering requirements, manpower availability and the like. Then, maintenance operations planning may be performed for a short range period such as daily, in order to generate daily maintenance schedules. Accordingly, maintenance operations planning may be performed in long-range, intermediate range and short-term iterations.

BSPR:

The spare parts inventory management subsystem of the intelligent computer integrated maintenance system allows ordering of spare parts based on predicted maintenance, rather than on the prescribed inventory levels. Spare parts budgeting is also accommodated. According to the invention, generic parts are ordered using a conventional order point system when the inventory quantities fall below a predetermined order point. For replaceable parts, however, the parts requirements are calculated based on time phased manufacturing requirements and mean-times to failure. The automated parts manual file is used to extend the production plan to parts replacement. A requirement is generated to replace a part in the week that it will exceed its mean-time to failure, and order forms for the parts are generated, or the parts may be ordered electronically.

BSPR:

The engineering change control management subsystem interfaces with an engineering change control file in the computer integrated manufacturing system in order to intelligently accommodate engineering changes. The engineering change control file indicates engineering changes to be made in the production machines in order to upgrade the machines or reconfigure the production machines to produce new products. This schedule of engineering changes is integrated into the maintenance schedule management subsystem, the parts manual management subsystem and the spares inventory management subsystem. For example, at the end of a machine's useful life, scheduled maintenance is postponed or eliminated. Similarly, maintenance parts are not ordered for these machines even though inventory falls below a predetermined level, to allow for depletion of inventory when the machine is taken off line. According to the invention, engineering changes may be phased into maintenance operation by controlling the phase-in by a specified date, by a specified spare parts inventory level or by assigning engineering changes to be made by a specific maintenance request.

DEPR:

The intelligent computer integrated maintenance system 1 of the present invention includes a maintenance operations computer controller 2 having four subsystems therein. These subsystems are the maintenance schedule management subsystem 3, the engineering change control management subsystem 4, the parts manual management subsystem 5 and the spares inventory management subsystem 6. Each of these subsystems will be described in detail below. Their operation may be summarized as follows:



DEPR:

Spares inventory management subsystem 6 is designed to operate with a spares inventory file 8 to manage ordering and inventory of spare parts. Spares inventory management system cooperates with the parts manual management subsystem 5 and the engineering change control management system 4 so that spare parts are ordered based upon an accurate list of parts in the parts manual file. When possible, generic or substitute parts are ordered rather than manufacture-specific parts. Furthermore, inventory management takes into account expected engineering changes so that unusable spare parts inventory is minimized. The spares inventory management subsystem 6 generates orders for parts based upon the maintenance schedule generated by maintenance schedule management subsystem 3. Generic parts are typically ordered using a point of order system in which additional quantities of parts are ordered when the quantity on hand is less than a predefined number. In contrast, nongeneric parts are ordered on a one-by-one basis based on the expected maintenance to be performed. Accordingly, inventory of these parts is minimized.

DEPR:

The Spares Inventory Management Subsystem 6 controls the ordering of spare parts. According to the invention, generic items such as nuts, bolts and washers, are reordered using a typical "order point" technique. In other words, when the quantity on hand falls below a predetermined order point, a replacement order is generated for a standard order quantity.

DEPR:

When the maintenance operator selects option 1 - FRAME SECTION 1" the computer reveals the next level of the machinery shown in FIG. 10C. When the maintenance operator selects option 1-part 0051, the last assembly of this sector appears on the computer along with the parts list (FIG. 10D). This is the lowest level in the hierarchial listing of parts. The maintenance operator may select the parts which are required by placing a 'P' beside the parts displayed. The parts will be automatically ordered, assigned an emergency maintenance request number, unless this is a planned modification, and the Parts Manual File will be updated to reflect the replacement parts. The Parts Manual Management Subsystem cooperates with the Spares Inventory Management System, as described below, to review part availability and to automatically issue the requested parts. The Parts Manual Management Subsystem also cooperates with the Maintenance Schedule Management System described above. All planned and unplanned maintenance requests are implemented through the Parts Manual Management Subsystem.

DEPR:

Referring again to FIG. 1, the details of the Spares Inventory Management Subsystem 6 will now be described. Spare parts consist of four types of inventory items:

DEPR:

Generic items, such as nuts, bolts and washers: These items are maintained in bulk and issued as required. These items are carried in the spares inventory management subsystem and the parts manual file for reference.

DEPR:

In general, Spares Inventory Management Subsystem 8 manages the purchasing of spare parts in the following way: Non-stocked parts are purchased upon request. Generic parts are reordered using typical "Order Point" techniques. In other words, when the quantity on-hand falls below the predetermined order point, a replacement order is placed for a predetermined order quantity. Consumable and replaceable parts are managed using a time-phased requirements technique. This time-phased technique will now be described.

DEPC:

OVERVIEW: SPARES INVENTORY MANAGEMENT SUBSYSTEM 6

DEPC:

DETAILED OPERATION: SPARES INVENTORY MANAGEMENT SUBSYSTEM 6

DEPC:

Example: Spare Parts Ordering

CLPV:

said spares inventory management means further comprising means for generating requirements to order a generic part when an inventory quantity falls below a predetermined quantity and for identifying requirements to order a replacement part to be available for use in the scheduled maintenance activities.

CLPV:

spares inventory management means, for generating requirements to order replacement parts for the identified parts to be available for use in the scheduled maintenance activities.

CLPV:

said spares inventory management means further comprising means for generating requirements to order a generic part when an inventory quantity falls below a predetermined quantity and for identifying requirements to order a replacement part to be available for use in the scheduled maintenance activities.

CLPV:

said spares inventory management means further comprising means for generating requirements to order a generic part when an inventory quantity falls below a predetermined quantity and for identifying requirements to order a replacement part to be available for use in the scheduled maintenance activities.

CLPW:

spares inventory management means, for generating requirements to order replacement parts for the identified parts to be available for use in the scheduled maintenance activities.

CLPW:

spares inventory management means, for generating requirements to order replacement parts for the identified parts to be available for use in the scheduled maintenance activities.

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## Document Number 8

Entry 8 of 9

File: USPT

Jun 11, 1991

US-PAT-NO: 5023438

DOCUMENT-IDENTIFIER: US 5023438 A

TITLE: Portable data input apparatus with different display modes  
 DATE-ISSUED: June 11, 1991

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wakatsuki; Yoshio	Tokyo	N/A	N/A	JPX
Okuyama; Toshiharu	Tokyo	N/A	N/A	JPX
Takeuchi; Hajime	Tokyo	N/A	N/A	JPX
Shimizu; Giichiro	Tokyo	N/A	N/A	JPX
Shimizu; Misao	Tokyo	N/A	N/A	JPX

## ASSIGNEE INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Nitto Kohki Co., Ltd.	Tokyo	N/A	N/A	JPX	03

APPL-NO: 7/ 440764

DATE FILED: November 24, 1989

FOREIGN-APPL-PRIORITY-DATA:

FOREIGN-PRIORITY:

FOREIGN-PRIORITY-APPL-NO: JP 63-299317

FOREIGN-PRIORITY-APPL-DATE: November 26, 1988

INT-CL: [5] G06K 7/10, G09G 1/06

US-CL-ISSUED: 235/472; 235/462, 340/711, 340/727

US-CL-CURRENT: 235/462.46; 235/462.47, 345/169

FIELD-OF-SEARCH: 235/462, 235/472, 235/375, 235/383, 235/454, 340/707, 340/711, 340/727, 341/22, 341/23

## REF-CITED:

## U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>4158194</u>	June 1979	McWaters et al.	N/A
<u>4418277</u>	November 1983	Tremmel et al.	235/472
<u>4727245</u>	February 1988	Dobbins et al.	235/472
<u>4801786</u>	January 1989	Stobbe	N/A

## FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY
56-74765	June 1981	JP
58-86486	May 1983	JP
59-87541	May 1984	JP
2122787	January 1984	GB

ART-UNIT: 239

PRIMARY-EXAMINER: Levy; Stuart S.

ASSISTANT-EXAMINER: duBois; Steven M.

ATTY-AGENT-FIRM: Nixon & Vanderhye

#### ABSTRACT:

A portable data input apparatus comprises an elongated casing. A pen-scanner type bar code reader reads a bar code provided according to the kind of a commodity, and outputs a corresponding code data unit. A keyboard is designed to input at least a numerical data unit representative of the amount of the commodity. A display device displays the code data unit and the numerical data unit. A display mode changing circuit is designed to invert the image of the data units displayed on the display device in the vertical direction and the horizontal direction, in response to a detection signal, which is output when the code data and numerical data are inversely displayed.

14 Claims, 23 Drawing figures

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## Document Number 8

Entry 8 of 9

File: USPT

Jun 11, 1991

DOCUMENT-IDENTIFIER: US 5023438 A

TITLE: Portable data input apparatus with different display modes

### BSPR:

When ordering inventories with use of the portable data input apparatus, a right-handed person holds the casing in the left hand and key-inputs data by the right hand, while a left-handed person holds the casing in the right hand and key-inputs data by the left hand.

### DEPR:

FIG. 1A is a perspective view of a portable data input apparatus according to an embodiment of the present invention, and FIG. 1B is a top view of the apparatus shown in FIG. 1A. This apparatus is designed to be suitable for an ordering work for ordering inventories of goods displayed in a shop.

### DEPR:

The present invention is not limited to the above embodiment. The above embodiment is directed to the case where the present invention is applied to the ordering work for commodities in shops. However, this invention is also applicable to inventory management.

### DEPR:

Furthermore, the modified data input apparatus according to the present invention is used for an ordering operation for each article in a shop. However, the present invention can be applied to inventory management of each article other than an ordering operation.

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Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	RMC

## Document Number 9

Entry 9 of 9 also 6 Abb

File: USPT

Mar 3, 1981

US-PAT-NO: 4254329

DOCUMENT-IDENTIFIER: US 4254329 A

TITLE: Microfiche information retrieval and control system utilizing  
machine readable microfiche and visually readable microfiche  
DATE-ISSUED: March 3, 1981

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gokey; Phillip E.	Whitewater	WI	N/A	N/A
Hurlbut; Donovan W.	Whitewater	WI	N/A	N/A
Sederholm; Emma L.	Whitewater	WI	N/A	N/A
Terry; Angel F.	Whitewater	WI	N/A	N/A

## ASSIGNEE INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
News Log International Incorporated	Whitewater	WI	N/A	N/A	02

APPL-NO: 5/ 956426

DATE FILED: October 31, 1978

INT-CL: [3] G06F 15/30, G06K 7/10, G03B 27/08

US-CL-ISSUED: 235/379; 235/454, 235/385, 353/27A

US-CL-CURRENT: 235/379; 235/385, 235/454, 353/27A

FIELD-OF-SEARCH: 235/454, 235/379, 250/570, 250/555, 250/566, 250/568,  
250/569, 353/27A

## REF-CITED:

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PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>3371324</u>	February 1968	Sinoto	235/454
<u>3506806</u>	April 1970	Hawkins et al.	235/454
<u>3549895</u>	December 1970	Sidorsky	235/454
<u>3655949</u>	April 1972	Rinn	235/454
<u>4086469</u>	April 1978	Toriumi et al.	235/92MP
<u>4097846</u>	June 1978	Lewis	340/146.3H
<u>4110020</u>	August 1978	Johnson et al.	250/570
<u>4158194</u>	June 1979	McWaters et al.	235/454

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2046860	July 1971	DE
2151125	October 1971	DE
2533938	July 1975	DE
2647831	April 1978	DE

ART-UNIT: 235

PRIMARY-EXAMINER: Cook; Daryl W.

ATTY-AGENT-FIRM: Hill, Van Santen, Steadman, Chiara & Simpson

ABSTRACT:

A parts management and inventory control system includes a microfiche data base of two types of microfiche cards. One type is machine readable only, while the other type card bears machine readable information and visually readable information. The microfiche cards bear digital information for machine reading. The digital information includes information to be read as output data and/or information for controlling a microfiche card transport or a scanner transport in order to accurately position microfiche cards for information retrieval. The system may interface with a central computer for parts ordering, cancellation and the like, and a printer provides a permanent business record. The system may also be employed in the field of finance in order to provide credit or bank account information with complete privacy with respect to the identification of the person whose account is being checked.

28 Claims, 17 Drawing figures

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Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	RMC

## Document Number 9

Entry 9 of 9

File: USPT

Mar 3, 1981

DOCUMENT-IDENTIFIER: US 4254329 A

TITLE: Microfiche information retrieval and control system utilizing machine readable microfiche and visually readable microfiche

## ABPL:

A parts management and inventory control system includes a microfiche data base of two types of microfiche cards. One type is machine readable only, while the other type card bears machine readable information and visually readable information. The microfiche cards bear digital information for machine reading. The digital information includes information to be read as output data and/or information for controlling a microfiche card transport or a scanner transport in order to accurately position microfiche cards for information retrieval. The system may interface with a central computer for parts ordering, cancellation and the like, and a printer provides a permanent business record. The system may also be employed in the field of finance in order to provide credit or bank account information with complete privacy with respect to the identification of the person whose account is being checked.

## BSPR:

This invention relates to microfiche information retrieval techniques, and is more particularly concerned with the provision and retrieval of digital information on a microfiche card, which information is to be retrieved for data processing purposes in, for example, a parts management and inventory control system or in an accounts management and checking system.

## BSPR:

With respect to microfiche cards used in parts management and inventory control systems, such as may be used in the retail, automotive and farm equipment industries, or accounts, credit check and signature card systems in the banking industry, a card is placed on an x-y transport, generally manually operated, and the desired frame is obtained, again by a trial and error method through repeated repositionings of the card until the desired frame appears on the viewer.

## BSPR:

Heretofore, microfiche cards have been limited to providing, in conjunction with parts catalogues and the like, visually readable graphic illustrations and/or alphanumeric information, such as generally found in retail catalogue and parts ordering systems.

## BSPR:

Another specific object of the invention is to provide a new and improved parts management and inventory control system.

## BSPR:

According to the invention, two basic types of cut microfiche, hereinafter simply called microfiche or microfiche cards, are provided as a data base. One type of microfiche card, called a "viewer microfiche", bears graphic information and digital information, the differences between such information being discussed below. In a parts management and inventory control system two types of viewer microfiche are provided:



BSPR:

The second type of microfiche is a totally digital microfiche which bears machine readable codes. More specifically, in a parts management and inventory control system (PMIC) the second type of microfiche is called a "price" microfiche and bears digital codes which indicate manufacturer's part number, locator number, current price and if the part is presently in stock.

BSPR:

In the context of a parts management and inventory control system, the present invention may advantageously be embodied in a system which comprises the aforementioned master, parts and price microfiche and apparatus for retrieving the information stored on such microfiche. In such a system, a viewer microfiche (master of parts) is positioned in a viewer, addressed and read to find a pertinent locator number which is assigned to a part being investigated. The locator number includes a price microfiche identification number to identify the pertinent price microfiche. The price microfiche is selected and placed in a scanner. Then, the locator number is keyed into the system to cause the scanner to access the price inventory information concerning that particular part. Finally, upon command, the price and inventory information is displayed by means of, for example, a light emitting diode (LED) display unit. If a sale or parts order is made, the system is provided with a printer for making a permanent record of the transaction and, in the case of an order, or a cancellation due to newly-received previously ordered parts, the transaction information is stored, at least on a temporary basis, for later communication to a central parts management computer. Such storage may advantageously be made with a magnetic tape unit and communicate to the central computer by way of the commercial telephone network by utilizing either a modulator-demodulator (MODEM) unit or a coder-decoder (CODEC) arrangement. All digital inter-unit and inter-network transmission may be accomplished with a specific digital code, such as the ASCII code.

DRPR:

FIG. 1 is a schematic pictorial representation of a parts management and inventory control system constructed in accordance with the present invention;

DEPR:

The PMIC system was designed with an overall view of improving product or parts management and inventory control. More specifically, the PMIC system services seven areas which are critical to efficient parts management and inventory control, namely:

DEPC:

A. Parts Management and Inventory Control Example

DEPV:

A. Parts Management and Inventory Control Example

CLPR:

10. A parts management and inventory control system comprising:

CLPR:

13. A parts management and inventory control system comprising:

Main Menu	Search Form	Result Set	Show S Numbers	Edit S Numbers	Referring Patents				
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[Help](#)[Logout](#)[Main Menu](#)[Search Form](#)[Posting Counts](#)[Show S Numbers](#)[Edit S Numbers](#)[Generate Collection](#)**Search Results - Record(s) 1 through 8 of 8 returned.**☐ 1. Document ID: US 6009406 A

Entry 1 of 8

*Same as 189*

File: USPT

Dec 28, 1999

US-PAT-NO: 6009406

DOCUMENT-IDENTIFIER: US 6009406 A

TITLE: Methodology and computer-based tools for re-engineering a custom-engineered product line

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Image
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☐ 2. Document ID: US 6003012 A

Entry 2 of 8

*Same as 209*

File: USPT

Dec 14, 1999

US-PAT-NO: 6003012

DOCUMENT-IDENTIFIER: US 6003012 A

TITLE: Methodology and computer-based tools for design, production and sales of customized switchboards

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Image
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☐ 3. Document ID: US 5953707 A

Entry 3 of 8

File: USPT

Sep 14, 1999

US-PAT-NO: 5953707

DOCUMENT-IDENTIFIER: US 5953707 A

TITLE: Decision support system for the management of an agile supply chain

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Image
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☐ 4. Document ID: US 5675784 A

Entry 4 of 8

File: USPT

Oct 7, 1997

US-PAT-NO: 5675784

DOCUMENT-IDENTIFIER: US 5675784 A

TITLE: Data structure for a relational database system for collecting component and specification level data related to products

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Image
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☐ 5. Document ID: US 5513427 A

Entry 5 of 8

File: USPT

May 7, 1996

US-PAT-NO: 5513427  
DOCUMENT-IDENTIFIER: US 5513427 A  
TITLE: System for producing parts/substrate assemblies

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMIC	Image
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☐ 6. Document ID: US 5494622 A

Entry 6 of 8

File: USPT

Feb 27, 1996

US-PAT-NO: 5494622  
DOCUMENT-IDENTIFIER: US 5494622 A  
TITLE: Apparatus and method for the zoned placement of superabsorbent material

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMIC	Image
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☐ 7. Document ID: US 4894908 A

Entry 7 of 8

File: USPT

Jan 23, 1990

US-PAT-NO: 4894908  
DOCUMENT-IDENTIFIER: US 4894908 A  
TITLE: Method for automated assembly of assemblies such as automotive assemblies and system utilizing same

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMIC	Image
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☐ 8. Document ID: US 4815190 A

Entry 8 of 8

File: USPT

Mar 28, 1989

US-PAT-NO: 4815190  
DOCUMENT-IDENTIFIER: US 4815190 A  
TITLE: Method for automated assembly of assemblies such as automotive assemblies

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMIC	Image
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## Document Number 3

Entry 3 of 8

File: USPT

Sep 14, 1999

US-PAT-NO: 5953707

DOCUMENT-IDENTIFIER: US 5953707 A

TITLE: Decision support system for the management of an agile supply chain  
 DATE-ISSUED: September 14, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Huang; Ying	Yorktown Heights	NY	N/A	N/A
Desiraju; Ramakrishna	North Tarrytown	NY	N/A	N/A
Begue; Christophe	White Plains	NY	N/A	N/A
Bakkalbasi; Omer	Mahopac	NY	N/A	N/A
Chan; Lap Mui Ann	Ossining	NY	N/A	N/A
Bhaskaran; Krishnakumar	Tarrytown	NY	N/A	N/A
Federgruen; Awi	Holliswood	NY	N/A	N/A
Krasinski; Raymond J.	Suffern	NY	N/A	N/A
Boey; Peter	Scarborough	NY	N/A	N/A

## ASSIGNEE INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Philips Electronics North America Corporation	New York	NY	N/A	N/A	02

APPL-NO: 8/ 802961

DATE FILED: February 21, 1997

## PARENT-CASE:

This application depends from U.S. Provisional Patent Application No. 60/012,327 entitled, "Decision Support System for the Management of an Agile Supply Chain", filed Feb. 27, 1996; U.S. Provisional Patent Application No. 60/022,787 entitled, "Decision Support System for the Management of an Agile Supply Chain", filed Jul. 30, 1996; U.S. Provisional Patent Application No. 60/008,101, filed Oct. 30, 1995; and U.S. Provisional Patent Application No. 60/005,860 entitled, "Decision Support Systems", filed Oct. 26, 1995, all filed on the behalf of the Assignee of this application.

INT-CL: [6] G06F 17/60

US-CL-ISSUED: 705/10; 705/1, 705/7, 706/925

US-CL-CURRENT: 705/10; 705/1, 705/7, 706/925

FIELD-OF-SEARCH: 705/10, 705/7, 705/8, 705/1, 706/925, 706/926

## REF-CITED:

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
T998008	September 1980	DeLano, Jr.	705/7
5208765	May 1993	Turnbull	N/A
5216612	June 1993	Cornett et al.	364/468.02
5231585	July 1993	Kobayashi et al.	364/468.02
5237497	August 1993	Sitarski	705/8
5249120	September 1993	Foley	705/1
5278751	January 1994	Adiano et al.	705/10
5311438	May 1994	Sellers et al.	705/8
5321605	June 1994	Chapman et al.	705/7
5325292	June 1994	Crockett	N/A
5331545	July 1994	Yajima et al.	705/8
5369570	November 1994	Parad	705/8
5463555	October 1995	Ward et al.	364/468.02
5586021	December 1996	Fargher et al.	364/468.06
5712985	January 1998	Lee et al.	705/10
5717865	February 1998	Stratmann	705/10
5737727	April 1998	Lehmann et al.	705/7
5765143	June 1998	Sheldon et al.	N/A
5787283	July 1998	Chin et al.	364/468.02

ART-UNIT: 275

PRIMARY-EXAMINER: MacDonald; Allen R.

ASSISTANT-EXAMINER: Crecca; Michele Stuckey

ATTY-AGENT-FIRM: Thorne; Gregory L.

#### ABSTRACT:

A decision support system for the management of an agile supply chain that provides an architecture including a server side and a client side. The server side includes a decision support system database that interfaces with a model engine that performs analysis of the data to support planning decisions. The server side includes a server manager that coordinates requests for service and information. The client side includes decision frames that present the various view points available in the system to the users. A frame manager coordinates the requests from decision support frames to access the needed data and models. The decision support frames provide a view into the supply chain and integrate analytical models responsive to the view point of a business process such as demand management. The frames include a supply management frame, a demand management frame, a vendor managed replenishment frame, a Planning, Sales and Inventory planning frame, and a distribution network design frame. The frame manager includes a system integrator and a functional integrator. A database management system manages the supply and maintenance of information needed by the modeling processes through the frame manager. A domain management process limits data available to said frame responsive to a user selection. The system also includes a demand and supply reconciliation process; a capacity planning process; a vendor managed replenishment process; and a scenario management process.

19 Claims, 70 Drawing figures

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Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC

## Document Number 3

Entry 3 of 8

File: USPT

Sep 14, 1999

US-PAT-NO: 5953707

DOCUMENT-IDENTIFIER: US 5953707 A

TITLE: Decision support system for the management of an agile supply chain  
DATE-ISSUED: September 14, 1999

### INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Huang; Ying	Yorktown Heights	NY	N/A	N/A
Desiraju; Ramakrishna	North Tarrytown	NY	N/A	N/A
Begue; Christophe	White Plains	NY	N/A	N/A
Bakkalbasi; Omer	Mahopac	NY	N/A	N/A
Chan; Lap Mui Ann	Ossining	NY	N/A	N/A
Bhaskaran; Krishnakumar	Tarrytown	NY	N/A	N/A
Federgruen; Awi	Holliswood	NY	N/A	N/A
Krasinski; Raymond J.	Suffern	NY	N/A	N/A
Boey; Peter	Scarborough	NY	N/A	N/A

### ASSIGNEE INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Philips Electronics North America Corporation	New York	NY	N/A	N/A	02

APPL-NO: 8/ 802961

DATE FILED: February 21, 1997

### PARENT-CASE:

This application depends from U.S. Provisional Patent Application No. 60/012,327 entitled, "Decision Support System for the Management of an Agile Supply Chain", filed Feb. 27, 1996; U.S. Provisional Patent Application No. 60/022,787 entitled, "Decision Support System for the Management of an Agile Supply Chain", filed Jul. 30, 1996; U.S. Provisional Patent Application No. 60/008,101, filed Oct. 30, 1995; and U.S. Provisional Patent Application No. 60/005,860 entitled, "Decision Support Systems", filed Oct. 26, 1995, all filed on the behalf of the Assignee of this application.

INT-CL: [6] G06F 17/60

US-CL-ISSUED: 705/10; 705/1, 705/7, 706/925

US-CL-CURRENT: 705/10; 705/1, 705/7, 706/925

FIELD-OF-SEARCH: 705/10, 705/7, 705/8, 705/1, 706/925, 706/926

### REF-CITED:

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5237497	August 1993	Sitarski	705/8
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5278751	January 1994	Adiano et al.	705/10
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5369570	November 1994	Parad	705/8
5463555	October 1995	Ward et al.	364/468.02
5586021	December 1996	Fargher et al.	364/468.06
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5717865	February 1998	Stratmann	705/10
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ART-UNIT: 275

PRIMARY-EXAMINER: MacDonald; Allen R.

ASSISTANT-EXAMINER: Crecca; Michele Stuckey

ATTY-AGENT-FIRM: Thorne; Gregory L.

#### ABSTRACT:

A decision support system for the management of an agile supply chain that provides an architecture including a server side and a client side. The server side includes a decision support system database that interfaces with a model engine that performs analysis of the data to support planning decisions. The server side includes a server manager that coordinates requests for service and information. The client side includes decision frames that present the various view points available in the system to the users. A frame manager coordinates the requests from decision support frames to access the needed data and models. The decision support frames provide a view into the supply chain and integrate analytical models responsive to the view point of a business process such as demand management. The frames include a supply management frame, a demand management frame, a vendor managed replenishment frame, a Planning, Sales and Inventory planning frame, and a distribution network design frame. The frame manager includes a system integrator and a functional integrator. A database management system manages the supply and maintenance of information needed by the modeling processes through the frame manager. A domain management process limits data available to said frame responsive to a user selection. The system also includes a demand and supply reconciliation process; a capacity planning process; a vendor managed replenishment process; and a scenario management process.

19 Claims, 70 Drawing figures

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Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMIC

## Document Number 3

Entry 3 of 8

File: USPT

Sep 14, 1999

DOCUMENT-IDENTIFIER: US 5953707 A

TITLE: Decision support system for the management of an agile supply chain

## ABPL:

A decision support system for the management of an agile supply chain that provides an architecture including a server side and a client side. The server side includes a decision support system database that interfaces with a model engine that performs analysis of the data to support planning decisions. The server side includes a server manager that coordinates requests for service and information. The client side includes decision frames that present the various view points available in the system to the users. A frame manager coordinates the requests from decision support frames to access the needed data and models. The decision support frames provide a view into the supply chain and integrate analytical models responsive to the view point of a business process such as demand management. The frames include a supply management frame, a demand management frame, a vendor managed replenishment frame, a Planning, Sales and Inventory planning frame, and a distribution network design frame. The frame manager includes a system integrator and a functional integrator. A database management system manages the supply and maintenance of information needed by the modeling processes through the frame manager. A domain management process limits data available to said frame responsive to a user selection. The system also includes a demand and supply reconciliation process; a capacity planning process; a vendor managed replenishment process; and a scenario management process.

## BSPR:

Many types of manufacturing database management and inventory control systems exist today. Each of these systems views the process from the narrow viewpoint of the goals of such a system. For example, inventory control processes tend to determine when the inventory of an item is projected to be depleted and when to order goods to prevent such depletion. The inventory control process does not generally take into account the problems associated with availability of materials and machines to satisfy the inventory demand. On the other hand the manufacturing control process considers the availability problem but does not take into account the effect of a sales promotion that will deplete an inventory faster than projected. A marketing department in preparing a sales promotion will often not consider the effect that promotion will have on availability, inventory and profit margin but tends to focus on sales goals. What is needed is a system that will support managers with each of these view points in understanding the effect of the various decisions that can be made on the supply chain as a whole both currently and into the near future.

## BSPR:

It is a further object of the present invention to allow the user to specify a data domain that limits the data used for a particular view point.

## DRPR:

FIG. 39: Functionality in the Domain Manager.



DRPR:

FIG. 51: The Select Data Domain Form.

DRPR:

FIG. 52: Edit Data Domain Dialog box.

DRPR:

FIG. 53: Make Product Domain Dialog Box.

DEPR:

A data space is a fundamental domain to characterize basic data elements associated with the supply chain management: demand, supply and inventory data. The data spaces 50, 52 and 54 tie the structural data to the process data. It has three principal dimensions: Product/Component; Time; and Node related structural element. As the node-related structural element can be a customer, an inventory location, or a production resource. The data in each data space can be at any resolution (in terms of level of aggregation) along the three dimensions and can be expressed as a quantity or value. Thus, each point in the data space characterizes the resolution of the product (or component), the time and the node-related structural element. For example, when describing the aggregate production plan data, a product can be at the resolution of product, time at a resolution of week, and the node-related structural element (Production resource in this case) at a resolution of production resource group. On the other hand, in describing bottom-up forecasts, a product can be at the resolution of product, time at a resolution of month, and node related structural element at the resolution of customer.

DEPR:

The specifications of the data tables for the manufacturing and equipment repair supply chains can be found in Appendices A and B, respectively. The list of the preferred tables in the DSS Database 12 for these chains is as follows: Aggregate Production Plan Data; Aggregate Production Plan Header; Budget Data; Budget Header; Calendar; Component. Component Accommodation Matrix; Component Requirement Data; Component Requirement Header; Component Supplier; Component Supply Contract; Component Supply Node; CPRD Table; Customer; Customer Group; Customer Group; Definition; Customer Orders; DataField Definition; Demand History Data; Demand History Header; Demand Node; Demand Orientation Data; Demand Orientation Header; Domain; Domain Definition; Feature Choices; Forecast Data; Forecast Header; Freight Rate; Inventory Data; Inventory Header; Inventory Node; Inventory Parameters; Market Data; Market Header; Material Delivery Schedule Data; Material Delivery Schedule Header; Planning BOM; POS Data; POS Header; Product; Product Features; Product Group; Product Group Definition; Production Accommodation Matrix; Production Capacity Data; Production Capacity Header; Production Matrix; Production Node; Production Requirements Data; Production Requirements Header; Promotion Data; Promotion Header; Resource; Resource Group; Resource Group Definition; Sales Requirements Data; Sales Requirements Header; Scenario; Scenario Data; Compatibility; Scenario Definition; Setup Matrix; Supply Chain Network; Supply Order Data; Supply Order Header; Temporary Product List; VMR Contract; VMR Data; and VMR Header

DEPR:

A supply-chain-wide view and the necessary Management 80 is recognized by all levels of the management as being vital to managing the business. However, decision makers at different levels and points along the supply chain are primarily motivated by their individual roles and responsibilities. The broader a decision maker's responsibilities, the more likely the decision maker is interested in employing decision support capabilities that target the entire supply chain. The user requirements discussed below for decision support are posed from a supply-chain-wide perspective. Given the uncertainty in the medium- to long-term sales forecasts, determine whether or not the enterprise should expand, maintain or reduce its production capacity and/or stocks for the critical components. When changes in business conditions impact one part of the supply chain, assess the potential impact on the other parts of the supply chain. Given different future business scenarios, determine their financial consequences across the supply chain. For the enterprise's

supply chain which includes major retailers, determine the appropriate division of responsibilities for all partners in the supply chain. Develop and implement performance incentives that will enhance and encourage supply-chain-wide thinking and decision making in the enterprise.

DEPR:

The Demand Management Frame 130 requires the participation of two modules: the Sales Forecasting and Planning (SFP) Module 132 and the Market Data Analysis (MDA) module 134. The SFP Module 132 in the Demand Management Frame 130 essentially operates in the D data space, i.e., it transforms data within the conceptual demand data domain. The MDA Module 134 in the Demand Management Frame 130 operates in the I and the D data spaces and relates the I data space to the D data space, i.e., it may transform data within the individual D data space as well as transform data from the I data space to the D data space. The data space representation of the Demand Management Frame 130 is the union of the data space representations of each participating module, and the interactions among participating modules.

DEPR:

Data Acquisition consists of selecting a Data Domain (specific pairs of customer and product), and choosing the type of data to be displayed (POS, demand history, inventory, Market Data 140). Data can be edited and modified and saved along with results of analysis in a scenario.

DEPR:

Data Acquisition consists of selecting a data Domain (specific pairs of customer and product), and choosing the type of data to be displayed: shipment or POS (when available).

DEPR:

The data Acquisition consists of selecting a data Domain (specific pairs of customer and product), and choosing the type of data to be displayed: shipment or POS (when available).

DEPR:

The PSI Planning Frame 160 requires the participation of three modules: the Sales Forecasting and Planning (SFP) Module 132, the Aggregate Production Planning (APP) Module 162, and the Finished Goods Inventory Management (FGIM) Module 164. The PSI Planning Frame 160 as a whole involves S, I, and D data spaces with iterative data transformations among each pair.

DEPR:

The PSI planning process requires the support of three modules: the Sales Forecasting and Planning (SFP) Module 132, the Aggregate Production Planning (APP) Module 162 and the Finished Goods Inventory Management (FGIM) Module 164.

DEPR:

One of the key objectives of any VMR program is to reduce the total inventory levels at different parts of the supply chain. The system will compute and record average inventory levels and compare it to maximum and average inventory targets. The results can then be reported to the user as requested.

DEPR:

The number of models and analysis routines within the Model Engine 20 could be quite large by virtue of the modular design and inherent complexity of the DSS 10. To better manage the Model Engine 20, there is a need for logically grouping the models and analysis routines. Furthermore, these models and analysis routines support major decision-making areas in a supply chain. Therefore, the models and analysis routines are grouped into seven modules corresponding to the principal decision-making areas in the supply chain as shown in FIG. 28: Market Data Analysis (MDA) 134; Sales Forecasting & Planning (SFP) 132; Vendor Managed Replenishment (VMR) 252; Finished Goods Inventory Management (FGIM) 164; Aggregate Production Planning (APP) 162; Component Procurement & Policy Development (CPPD) 230; Finished Goods Distribution Network Design (FGDND) 292; A frame by virtue

of its definition may require the participation of some subset of modules (i.e., the models and analysis routines of these modules will be involved). In the case of the PSI Planning Frame 160, the MDA 134, SFP 132, FGIM 164, and APP 160 Modules will be involved in constituting the decision logic 76.

DEPR:

Repair plan for the repair shop that is feasible with respect to the repair constraints (capacity and key component availability). Finished Goods Inventory Management (FGIM) 164

DEPR:

The Supply Chain Frame Manager 24 is responsible for two types of integration: System Integration and Functional Integration. The System Integrator 310 (see FIG. 34) is responsible to interpret the client's request, dispatch the request to the appropriate servers and to coordinate the computation load and data access. The Functional Integrator 312 provides the functionality associated with overall supply chain instead of individual frame. These functionalities include Supply Chain Configuration, Domain Management, user access or privilege administration and performance monitoring or simulation.

DEPR:

The Functional Integrator 312 enables the advanced user to define the supply chain configuration, manages user access and privileges, supports and enables the customization of the DSS 10, manages domains to support user defined data groupings, manages user defined Scenarios 78 and ensures data consistency across the DSS 10, and dynamically monitors the impact of the user's decisions on the performance of the entire supply chain by using supply chain simulation.

DEPR:

The DSS 10 is a secure system where a userid and password are required for access and is managed by a User Access and Privileges Manager 331. An account consists of a userid, password and membership in various groups. A user derives rights from group membership that can be individually amended. The DSS System Administrator is responsible for assigning each user to a group and assigning rights to every new account. The lowest access possible allows read only access to one specific frame, with no ability to save Scenarios 78 or domains. Each table in the DSS 10 database 12 has a designated owner. Only the owners are allowed to update the DSS Database 12. A scenario can be used to update the DSS Database 12 when the user who generated it is the owner of the data table that needs update.

DEPR:

The Supply Chain Frame Manager 24 provides the user with the ability to define combinations of products, customers, and resources to be reused in the context of various analyses. These are called Data Domains and are managed by a Domain Manager 332.

DEPR:

Data Domains provide a convenient mechanism for the user to define the products and customers with which (s)he is interested in working. For example, an account manager can define a data domain that consists of the customer accounts that (s)he is responsible for. A data domain is a set of customer, product, or resource combinations. Data Domains may be used from different Frames 16. The data domain can be defined at various levels of aggregation (resolution) along each dimension: Product/product group, customer/customer group and resource/resource group. A data domain is independent of a data source (forecast, point of sales, shipments). The data sources are determined by the type of analysis that is performed and are therefore contingent on the frame where the data domain is used. For example, a domain can be used in the context of the sales promotion analysis functionality and could also be used for forecasting: different data sources will be used in order to perform each analysis but both refer to the same data domain. Not attaching a particular time range or data series to the Data Domains facilitates their portability from function to function and frame to frame. The user is allowed to build, edit and delete Data Domains that are owned by the user. In addition, the user is allowed

read-access to the definitions of the Data Domains of other users. This facilitates a set of users to perform similar analysis and share carefully constructed Data Domains. The Data Domain Database comprises two tables: Domain Description and Domain Definition. From these two tables, the list of available user domains and the member tuples of each domain can be created and displayed for the user. The domain management interface can consist of multiple tree-views. Each tree-view represents the logical grouping of customers, products or resources. From each of the tree-views, the user can select the product, customer, or resource combinations and add the selection to the domain. The User Interface 18 should optionally reflect the data availability, and the intrinsic relationship between the customers, products, and resources. For example, if the user chooses a specific customer first, he should be able to choose only the products that are sold to this customer (or any product, depending on his preference) to make a domain. Since a customer (or product or resource) can belong to multiple customer (or product or resource) groups, the user should be able to visualize the groups in which the customer (or product or resource) is a member. This can be visually implemented by reversing the tree-view, based on user selected customer (or product or resource). This tree-reversal will display the bottom-up version of the tree, rather than the usual top-down. Data Domains can also be dynamically constructed based on the features of the product. For example, a PSI user can use the domain management tool to define that a data domain consists of Televisions with 19", screen and GR3A chassis. The tool will then generate a data domain that consists of all the televisions with these features. The data domains contains the data groups which a DSS user is interested in working. For example, a plant manager can define a domain that consists of products and production resources. An air force commander can define a domain that consists of aircraft and line repairable units. The domain can be defined at various levels of aggregation along each dimension. Once a domain is defined and saved, it can be retrieved and used in the context of various decision analysis. FIG. 39 shows the process of using the Domain Manager 332, and also shows the operations of the Domain Manager 332.

DEPR:

The Simulator 350 resides at the Supply Chain Frame Manager 24 as a Functional Integrator 312 together with the Network Configurator 330 and Domain Manager 332 as shown in FIG. 37; Supply Chain Manager - High Level Architecture. The Simulator 350 can be initially configured with product flow, network structures and domain information with the other modules of the Functional Integrator 312. Then, the Simulator 350 will read major decisions from the individual Frames 16 that will have impact on the total supply chain performance. Monte Carlo simulation will be carried out driven by demand processes captured from the domain information and replenishment and PSI decisions from the DSS Frames 16. Total systems performance representing the supply chain dynamics will be tracked according to the performance matrices specified in our DSS specification. These mainly cover cost and service tradeoffs including fill rates and response times. The performance will be monitored in aggregation according to various levels such as; nodes, echelons, distribution channels and the total system. In essence, the architecture facilitates the primary objectives of complementing decision integration among models to provide a cross-functional optimization.

DEPR:

The primary interaction screen for the Domain functionality is the Select Data Domain dialog box (see FIG. 51). The purpose of this dialog box is to display a list of all domains available to the user. It also allows the user access to dialog boxes for, editing, creating and deleting user domains. This set of functions constitutes the core functionality for the domain object.

DEPR:

The major features and functionalities of the Select Data Domain dialog box are discussed below. An area showing, in a graphical way, the available domains. This list is built from two separate lists of domains. One set of domains is a default list of domains available to all users. The second set of domains is a user-specific set of domains. This set of

domains can be created, edited and deleted by the user. The default set of domains is immutable. Each domain is represented by a folder. Double clicking on a folder selects the folder and adds it to the Currently Selected Domain text box. Double clicking on a folder expands the folder and shows the customer-product tuples that are within the domain. An area showing the currently selected domain name. A button to allow Loading of the currently selected domain. A Cancel button to allow the user to exit the dialog box without selecting any domain and without initiating a load operation. The Cancel is only valid for operations performed on the current dialog box. Editing operation performed during the session will persist. An Edit Domain button to allow users to modify existing domains, create new domains and delete unneeded domains. This functionality is only available for user-created domains and not for default domains.

DEPR:

The Edit Data Domain function allows the user to create new, user-defined domains and add them to the list of existing domains. In addition, the edit domain window allows the user to modify existing domains and delete unneeded domains. The user can create tuples from a tree-like listing of all available products and product groupings and all available customer/customer groupings. The user may add as many tuples to the new domain as necessary. The user must give the domain a unique name and save it. It is then added to the list of available domains for the user (See FIG. 52).

DEPR:

The major features and the usage of the features of the Edit Data Domain dialog box are discussed below. To create a new domain, the user must click the Add New Domain button on the tool bar. This will create a new domain in the list of existing domain and open a name change box over the name of the domain so the user may give the new domain a unique name. To add a new tuple to a domain the user must have a selected domain in the domain list. Next the user must click on a product or product group in the product tree and/or a customer or customer group in the customer tree and click the Add to Domain button on the toolbar to add the selected tuple to the selected domain. Only one product/product group and one customer/customer group may be selected at a time. Selecting a group will result in aggregated data for the selected group being displayed. If data for the members of the group will be needed, the system will assist the user by displaying the data at appropriate resolution. However, some analysis may require that all of the data for the members be loaded. A shortcut key will be provided to allow the user to select all of the products or customers that make up a selected group. The user may select as many tuples as necessary. To remove a tuple from the new domain, the user must select the tuple from the list of tuples to be added to the new domain and click the Delete button on the toolbar. To delete an entire domain, highlight the domain to be deleted in the list of domains and click the Delete button on the toolbar. The user will be warned that this action will result in the elimination of a domain from the DSS 10. If the user clicks OK, the domain is deleted. If Cancel is clicked, the domain will not be deleted. When naming a new domain: the new domain may not have the same name as an existing user domain nor the same name as an existing default domain; and the domain name should be something descriptive to the user so he will remember what the domain represents. The user saves the new data domain and exits the dialog box by selecting the OK button. If the user exits without saving the new domain, he/she will be asked whether the new domain should be saved. The user can exit the dialog box without saving the new data domain by clicking the Cancel button. Default domains cannot be added by the user. Default Data Domains are created and added to the DSS Database 12 by a systems administrator with this access privilege. The user may choose between four different modes for viewing the Customer and Product trees as discussed below. The "Product View" enables the user to first click on a product or product group in the Product tree. When a product or product group has been selected, the Customer tree is updated to display only the customers and customer groups that are relevant. The "Customer View" enables the user to first click on a customers or customer group in the Customer tree. When a customer or customer group has been selected, the Product tree is updated to display only the product and product groups that are relevant. The "Customer-Product View" enables the

user to first click on either an element of the Customer tree or an element of the Product tree and see the existing related elements in the other tree. The "Neutral View" displays all customer and customer groups and all product and product groups with no linkage between them. This view allows users to select tuples without regard for the existing relationship between the products and a customer. The user also has the ability to reverse the tree and show all the parental relationships involving a selected element of the tree. This is accomplished by way of the Reversed check box located at the top of the Customer and Product trees. By clicking the check box the tree is reversed, based on the currently selected element of the tree. Either a group or an individual product or customer may be selected. The tree may then be rotated to show the groups it belongs to. To restore the view to the normal view, uncheck the check box.

DEPR:

The Make Product Set dialog box gives the user an alternate way to make a domain which only consists of products and product groups (see FIG. 53). Using this dialog box, the user may select groups of product numbers based on features of the products. This function can be accessed from the Edit Data Domain dialog box by clicking the Make Product Set button on the toolbar. This will open the Make Product Set dialog box.

DEPR:

First, the user selects a product category from the product category list. Then, the user selects a feature (or features) that will be used as selection criteria (i.e., the Brand) in a combo box in the right part of the dialog box. Once the feature selection is made, the possible values for that feature will appear in a list box below the selected feature name. The user may then highlight the features desired. Immediately after the feature type (i.e., Brand) is selected, a new blank feature type selection box appears to the right of the selected feature type. This allows the user to select a second feature choice to use as a selection criteria (i.e., Subtype). Once again, the possible values are then listed in a list box below the selected feature type and a third feature type selection combo box appears to the right of the last selection combo box. This process will repeat until there are no more feature types related to the products. The user may select all of the choices for the feature by clicking the Select \* button located directly below the Feature Type dialog box. In the following example, the resulting domain consists of products in the "PROJ" product category with brand being "FI", "PP" or "S" and subtype being "P" or "S". The products that satisfy these selection criteria are shown in the "Products" list.

DEPR:

As the user makes selections from among the Feature choices, the list of products matching the selection criteria is updated in the Products list box. The user may select a set of these selected products to use as the domain, or may choose all of the products selected using the Select button. When the user has the desired set of products, OK is clicked to copy the selection to the Edit Data Domain dialog box.

DEPR:

All DM activities take place within the same data domain, although different Data Domains may be active in other Frames 16 of the DSS 10. The user can select a new data domain for the DM activities at any time using the standard DSS 10 data domain selection dialog box.

DEPR:

This area of the demand characterization screen enables the user to visualize the selected domain in outline form. The user can then select one or more data streams at any level of aggregation, and by using the option menu, specify the type of data to be displayed: sales history, sales characteristics, or Market Data 140. The Market Data 140 may not be always available at the same resolution as the firm's Demand History Data 136. Therefore, special "market Data Domains" are created to facilitate access to the Market Data 140.

DEPR:

Since BU forecasting is a customer-driven operation, the topmost table displays the customer tree for the selected domain. Only those domain entries which are strictly customer-oriented are shown in the customer table. Entries are displayed in an outline form as they were defined in the domain. The first column in the table lists the names of customer groups or customers, while the remaining columns contain the total sales data for that customer. A split line in the table divides historical and Forecast Data 146. The time spans for historical and Forecast Data 146 can be specified by the user.

DEPR:

The Product table displays the list of products from the selected domain. only those entries which are strictly product-oriented are shown in this table, and are displayed in an outline form as they were defined in the domain. The first column in the table lists the names of product groups or individual products, while the remaining columns contain the sales data for that product aggregated at the appropriate level. A split line in the table divides historical and Forecast Data 146.

DEPR:

The User Interface that supports Sales Promotion Analysis is built around the promotion calendar. The promotion calendar shows the list of all the past and planned promotions for the set of products and customers defined by the selected domain.

DEPR:

If the user wishes to view the customer-product tuple (domain) that promotions are displayed for, or wishes to limit the promotions shown by choosing what Promotion Type, Promotion Class and Promotion Intensity he wishes to analyze, the Promotion Selection Wizard may be invoked. The user selects the customer-product pairs that analysis is to take place on and can limit the selection by choosing what Promotion Type, Promotion Class and Promotion Intensity he wishes to analyze. When the OK button is clicked, the Promotion Calendar dialog box is populated with all promotions that match the selection criteria (See FIG. 59).

DEPR:

The PSI main screen is a work area where the user can experiment with different Production, Inventory and Sales figures and see the effects caused by these changes to eventually converge to the most desirable PSI plan 190. The Main PSI Screen (see FIG. 61) initially shows the Production, Inventory and Sales for all of the products in the user selected domain. The figures for all of the products are aggregated together and shown. The user may also select any individual product in the aggregation and show the numbers for this product alone. This can be done by choosing the desired product number from the Product selection combo box located near the top left of the screen. The first choice in the combo box is always All Products to allow the aggregation of all products to be shown. The user may change the products being analyzed by selecting a new set of products from all available products. This may be done by selecting a new domain.

DEPL:

Domain Management

DEPL:

Domains

DEPL:

Select Data Domain

DEPL:

Edit Domain

DEPV:

Select data domain.

DETL:

TABLE 7 \_\_\_\_\_ Modules in the

Manufacturing and Equipment Repair Supply Chain Manufacturing Supply Chain  
Equipment Repair Supply Chain  
Market Data Analysis Market Data Analysis (MDA) (MDA) Sales Forecasting &  
Sales Forecasting & Planning (SFP) Planning (SFP) Finished Goods Finished  
Goods Inventory Inventory Management Management (FGIM) (FGIM) Aggregate  
Production Aggregate Production Planning (APP) Planning (APP) Component  
Procurement & Component Procurement & Policy Development Policy  
Development (CPPD) (CPPD) Vendor Managed Replenishment (VMR) Finished  
Goods Distribution Network Design (FGDND)

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CLPR:

6. A system as recited in claim 1, wherein said modeling processes comprise a component procurement policy development module, a finished goods distribution network design module, an aggregate production planning module, a finished goods inventory management module, a sales forecasting and planning module, a market data analysis module and a vendor managed replenishment module.

CLPR:

17. A system as recited in claim 16, further comprising a domain management process configured to limit data available to said frames and configured to respond to a user selection.

CLPW:

an interface, and decision support frames configured to provide a view into production, sales and inventory of a supply chain, said frames configured to integrate analytical models of the supply chain responsive to a view point of a business process, said frames comprising a supply management frame, a demand management frame, a vendor managed replenishment frame, a planning, sales and inventory frame and a distribution network frame, wherein said interface is configured to query said decision support frames; and

CLPX:

modeling processes configured to analyze the supply chain, said modeling processes comprising a component procurement policy development module, a finished goods distribution network design module, an aggregate production planning module, a finished goods inventory management module, a sales forecasting and planning module, a market data analysis module and a vendor managed replenishment module; and

CLPX:

a domain management process configured to limit data available to said frames and configured to be responsive to a user selection.

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Entry 4 of 8

File: USPT

Oct 7, 1997

US-PAT-NO: 5675784

DOCUMENT-IDENTIFIER: US 5675784 A

TITLE: Data structure for a relational database system for collecting component and specification level data related to products

DATE-ISSUED: October 7, 1997

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APPL-NO: 8/ 454708

DATE FILED: May 31, 1995

INT-CL: [6] G06F 17/60, G06F 17/30

US-CL-ISSUED: 395/611; 395/610, 395/326

US-CL-CURRENT: 707/100; 345/343, 707/10

FIELD-OF-SEARCH: 364/401, 395/161, 395/600, 395/611, 395/610, 395/326

**REF-CITED:**

U.S. PATENT DOCUMENTS

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#### ABSTRACT:

A relational database system allows users to search for specific products based on component criteria. The relational database system allows for unlimited number and type of components to be associated with products and employs a data architecture that enforces consistent product data including consistent description format among like products and consistent component descriptions whenever components are used in products. Product and component specification data is arranged in such a way as to allow users to search for specific products based on component criteria. The structure allows for an unlimited number and type of components to be associated with products and can accommodate future technologies that are not yet identified. The database system employs a series of tables having relationships that promote consistency, accuracy and ease of use by employing selection lists wherever data redundancy is possible. The database system automatically concatenates product descriptions using a component table. The relational database system allows mathematical additions of component values, such as cumulative system memory accumulated over a period of time, via the use of a unit of measure table and measurement group table.

12 Claims, 18 Drawing figures

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## Document Number 4

Entry 4 of 8

File: USPT

Oct 7, 1997

DOCUMENT-IDENTIFIER: US 5675784 A

TITLE: Data structure for a relational database system for collecting component and specification level data related to products

### BSPR:

As mentioned, the general problem is not limited to computer systems. Indeed, the automobile industry, for one, has always had a strong after market for installed options, some of which are offered by new car dealers. And increasingly manufacturers are relying on third party contractors to supply of parts under so-called "just-in-time" inventory management. Moreover, modern automobiles are equipped with multiple microprocessors, each programmed to perform different functions, such as engine and ride control. The programs for these microprocessors are often modified during a model year, and the microprocessors may be purchased from multiple sources and be of differing designs. The result is that often automobiles of the same model year might be equipped with parts from different suppliers, and this creates a problem in servicing. Furthermore, there is growing after market for updated microprocessors designed to enhance engine performance.

### BSPR:

The data structure according to the invention comprises a series of linked tables, each table having one or more primary keys and a junction table having a plurality of fields. The fields in the junction table store information and provide links to other tables in the data structure. The linked tables include a product domain table identifying product domains, each product domain being linked to a product table which identifies manufactured or published products by part number and description or a service by an offering number and a description. The descriptions of the products, publications or services are formatted according to concatenation rules. The product table is linked to a component table containing component information, a pricing table containing pricing and leasing information, and a warranty table containing warranty information. The component table includes predefined, standard component types with filled-in specification values such that when product components and product component specifications are added, a user may choose from a list of common components to copy, thus promoting efficiency and data integrity. The component table is linked to a component specification table which, in turn, is linked to a unit of measure table quantifying entries in the component specification table allowing components to be compared. Optionally, other tables including a manufacturer table, a product promotion table may be added to the data structure, thereby accommodating a large amount of data for products stored in the catalog.

### BSPL:

Using this data structure, the system manages product and component specification data to allow users to search for specific products based on component criteria. In a search, the user selects a domain (e.g., hardware), a class (e.g., computer systems) and a subclass (e.g., laptops) from an input screen. Then the user inputs product specification and component group. The product specification may be a search function, such as, "like compaq% or toshiba% ". The component group includes a specification type name (e.g., processor), value (e.g., 40) and units of

measure (e.g., MHZ). The unit of measure (UOM) allows for complex comparisons such as KB vs. MB vs. GB. The search output is a Results List of products that match the search criteria. The list includes manufacturer part number, description of the product, announcement data (if any), and cost. Double clicking on a product in the list provides a product maintenance screen with an extended view list of the product components. The components in the extended view list, in turn, can be selected to view attributes and specification values associated with them. The components are ordered by relative importance; e.g., in a computer system, the processor is the most important component, followed by the RAM, storage devices, etc.

BSPV:

Domain--This is the highest level. Typical domains are hardware, software and services.

BSPV:

Class--The next level of classification groups similar products such as computer systems, monitors or pointers (all hardware domain classes). Each domain has its own group of classes.

DEPR:

Turning now to FIG. 2 there is shown a high-level flow diagram of the process for generating the data structure for the relational database system according to the invention. Beginning with function block 50, a classification structure, i.e., domain, class and subclass, is created. As mentioned, the data structure is a three tiered hierarchical structure. The domain is the highest level of this structure. Typical domains for the example of computers are hardware, software and services. The next level of classification is the class which groups similar products such as computer systems, monitors or pointers, all hardware classes of the domain "hardware". Each domain has its own group of classes. The third level of the hierarchy is the subclass. Subclasses have a specific set of components. All products in that subclass typically have these components. FIG. 3 is a screen which illustrates the structure. In this example, the domain "hardware" is selected, the class "computer systems" is selected, and the subclass "desktops/towers" is selected.

DEPR:

FIG. 11 shows a screen in which a search strategy has been entered. The domain selected is "hardware", the class selected is "computer systems", and the subclass selected is "desktops/towers". The product is specified by manufacturer, in this case Compaq.RTM.. More than one manufacturer may be specified as part of the search strategy. Next, the component specification is listed. In the case illustrated, the sole component is the processor, here a 468DX2. Again, more than one component can be used in the search strategy and alternatives may be used. For example, a component specification for a search might be a 486DX2 OR a Pentium.RTM. processor AND a CD ROM drive, where "OR" and "AND" are Boolean or logical operators. For the search strategy shown in FIG. 11, the system generates a Results List as shown in FIG. 12. This list shows by manufacture part number, description and price all the products in the database that meet the criteria in the search strategy.

DEPR:

FIG. 13 is a data model of the data structure according to the invention. The data model is for a product catalog 100, and the central part of this is a product table 101 which is linked to a catalog item table 102. A product in table 101 is identified by manufacturer by a link to manufacturer table 103. A product in table 101 may be described by a resource 104. The product domain 110 is linked to the product table 101 and categorizes the product. The product class 120 is also linked to the product table and classifies the product.

DEPR:

The junction table 702 provides the links to the component entity 71, the component.sub.-- group entity 72, the catalog.sub.-- item entity 73, and the product.sub.-- domain 74.

DEPR:

The product.sub.-- domain entity 74 is the highest level grouping of products and has a single primary key 741, "product.sub.-- domain.sub.-- sid:varchar(17)", which uniquely identifies the product domain, and a junction table 742. The product.sub.-- domain entity 74 provides the broad product classification; e.g., computer hardware, automobiles, appliances, furniture, etc. Taking computer hardware as one example of the domain, the classification may be, for example, desk top computers, tower computers, laptop computers, network servers, minicomputers, or main frames.

DEPR:

The junction table 742 has fields that describe the product for this domain in free form or concatenated form and provide audit fields; e.g., who is responsible for maintenance, etc. The junction table 742 includes the following fields:

DEPR:

The junction table 732 of the catalog.sub.-- item entity 73 and the junction table 742 of the product.sub.-- domain entity 74 also provide links to the product.sub.-- warranty entity 81. The product.sub.-- warranty entity 81 is, in turn, linked to the warranty.sub.-- program entity 82 and associates domain and product with warranties. The product may have several warranties. For example, there may be separate warranties on the central processing unit (CPU) and the display device.

DEPV:

"product.sub.-- domain.sub.-- sid:varchar(17)"--uniquely identifies a product domain.

DEPV:

"product.sub.-- domain.sub.-- sid:varchar(17)"--uniquely identifies a product domain.

DEPV:

"product.sub.-- domain.sub.-- sid:varchar(17)"--uniquely defines a product domain.

DEPV:

"product.sub.-- domain.sub.-- sid:varchar(17)"--uniquely identifies a product domain.

DEPV:

"maufacturer.sub.-- model:varchar(40)"--for a product in the hardware domain, it is the manufacturer's designated model name.

DEPV:

product.sub.-- domain.sub.-- sid:varchar(17)--a unique identifier specifying the product domain.

CLPV:

classifying data in a three tiered hierarchical data structure consisting of domains, classes and subclasses, domains being a highest level of the hierarchical data structure and each domain having its own group of classes, each class having its own group of subclasses, and each subclass having a specific set of components, all products in a subclass having these components, components in a subclass having attributes;

CLPV:

storing the linked tables on a storage device of a digital computer having a database manager programmed and arranged to manage said data in the linked tables to allow users to input and search for specific products based on component criteria, wherein the linked tables stored on the storage device form a data structure including a product domain table, data input in said product domain table identifying product domains, each said product domain being linked to a product table, data input in said product table identifying manufactured or published products by part number and description or a service by an offering number and description, said descriptions being formatted according to concatenation rules, said product table being linked to a component table containing component

information, a pricing table containing pricing and leasing information, and a warranty table containing warranty information; and

CLPV:

generating a screen on which a user selects a domain, a class and a subclass to input and to search data in the linked tables, said database manager allowing a user to search products meeting a particular criteria including a criteria defined by logical operators, wherein data entered in the component table includes pre-defined, standard component types with filled-in specification values such that when product components and product component specifications are added, said method allowing a user to choose from a list of common components to copy thereby promoting efficiency and data integrity, said component table further being linked to a component specification table which includes information on the predefined, standard component types with filled-in specification values and to a component group specification type usage table which contains information associating subclass component types to subclass component type specification types.

CLPV:

classifying data in a three tiered hierarchical data structure consisting of domains, classes and subclasses; domains being a highest level of the hierarchical data structure and each domain having its own group of classes, each class having its own group of subclasses, and each subclass having a specific set of components, all products in a subclass having these components, components in a subclass having attributes;

CLPV:

storing the linked tables on a storage device of a digital computer having a database manager programmed and arranged to manage said data in the linked tables to allow users to input and search for specific products based on component criteria, wherein the linked tables stored on the storage device form a data structure including a product domain table, data input in said product domain table identifying product domains, each said product domain being linked to a product table, data input in said product table identifying manufactured or published products by part number and description or a service by an offering number and description, said descriptions being formatted according to concatenation rules, said product table being linked to a component table containing component information, a pricing table containing pricing and leasing information, and a warranty table containing warranty information; and

CLPV:

generating a screen on which a user selects a domain, a class and a subclass to input and to search data in the linked tables, said database manager allowing a user to search products meeting a particular criteria including a criteria defined by logical operators, wherein data entered in the component table includes pre-defined, standard component types with filled-in specification values such that when product components and product component specifications are added, said method allowing a user to choose from a list of common components to copy thereby promoting efficiency and data integrity, said component table further being linked to a component specification table which includes information on the pre-defined, standard component types with filled-in specification values and to a component group specification type usage table which contains information associating subclass component types to subclass component type specification types, wherein said linked tables further included a bundle product table linked to said product table, data entered in said bundle product table storing information of component packages included in a product in said product table.

CLPV:

classifying data in a three tiered hierarchical data structure consisting of domains, classes and subclasses, domains being a highest level of the hierarchical data structure and each domain having its own group of classes, each classes having its own group of subclasses, and each subclass having a specific set of components, all products in a subclass having these components, components in a subclass having attributes;

CLPV:

storing the linked tables on a storage device of a digital computer having a database manager programmed and arranged to manage said data in the linked tables to allow users to input and search for specific products based on component criteria, wherein the linked tables stored on the storage device form a data structure including a product domain table, data input in said product domain table identifying product domains, each said product domain being linked to a product table, data input in said product table identifying manufactured or published products by part number and description or a service by an offering number and description, said descriptions being formatted according to concatenation rules, said product table being linked to a component table containing component information, a pricing table containing pricing and leasing information, and a warranty table containing warranty information; and

CLPV:

generating a screen on which a user selects a domain, a class and a subclass to input and to search data in the linked tables, said database manager allowing a user to search products meeting a particular criteria including a criteria defined by logical operators, wherein data entered in the component table includes pre-defined, standard component types with filled-in specification values such that when product components and product component specifications are added, said method allowing a user to choose from a list of common components to copy thereby promoting efficiency and data integrity, said component table further being linked to a component specification table which includes information on the pre-defined, standard component types with filled-in specification values and to a component group specification type usage table which contains information associating subclass component type to subclass component, type specification types, wherein data entered in said warranty table linked to said product table includes information on a warranty program, if any, of a product in said product table, said information on the warranty program including a price of the warranty program, time period when the warranty program is in effect, and conditions under the warranty program.

CLPV:

a data structure comprising a hierarchical data structure programmed and arranged for classifying data in a three tiered hierarchical structure consisting of domains, a highest level, classes, a next level which groups similar products, each domain have its own group of classes, and subclasses having a specific set of components, all products in a subclass having these components, components in a subclass having attributes and attributes having specification values associated with them, said data structure being stored on said storage device as a series of linked tables, each said table having at least one primary key field and a junction table having a plurality of fields, said junction table providing links to other tables in the data structure, wherein said linked tables include a product domain table identifying product domains, each said product domain being linked to a product table which identifies manufactured or published products by part number and description or a service by an offering number and description, said descriptions being formatted according to concatenation rules, said product table being linked to a component table containing component information, a pricing table containing pricing and leasing information, and a warranty table containing warranty information, wherein said component table includes pre-defined, standard component types with filled-in specification values such that when product components and product component specifications are added, a user may choose from a list of common components to copy thereby promoting efficiency and data integrity, said component table further being linked to a component specification table which includes information on the pre-defined, standard component types with filled-in specification values and to a component group specification type usage table which contains information associating subclass component types to subclass component type specification types; and

CLPV:

a database manager programmed and arranged for managing said data structure to allow users to input and search for specific products based

on component criteria, said database manager interfacing with said system software to generate a screen on said display device on which a user selects a domain, a class and a subclass to input and to search data in said linked tables, said database manager allowing a user to search products meeting a particular criteria including a criteria defined by logical operators.

CLPV:

a data structure comprising a hierarchical data structure programmed and arranged for classifying data in a three tiered hierarchical structure consisting of domains, a highest level, classes, a next level which groups similar products, each domain have its own group of classes, and subclasses having a specific set of components, all products in a subclass having these components, components in a subclass having attributes and attributes having specification values associated with them, said data structure being stored on said storage device as a series of linked tables, each said table having at least one primary key field and a junction table having a plurality of fields, said junction table providing links to other tables in the data structure, wherein said linked tables include a product domain table identifying product domains, each said product domain being linked to a product table which identifies manufactured or published products by part number and description or a service by an offering number and description, said descriptions being formatted according to concatenation rules, said product table being linked to a component table containing component information, a pricing table containing pricing and leasing information, and a warranty table containing warranty information, wherein said component table includes pre-defined, standard component types with filled-in specification values such that when product components and product component specifications are added, a user may choose from a list of common components to copy thereby promoting efficiency and data integrity, said component table further being linked to a component specification table which includes information on the pre-defined, standard component types with filled-in specification values and to a component group specification type usage table which contains information associating subclass component types to subclass component type specification types, and wherein said linked tables further include a bundle product table linked to said product table, said bundle product table storing information of component packages included in a product in said product table; and

CLPV:

a database manager programmed and arranged for managing said data structure to allow users to input and search for specific products based on component criteria, said database manager interfacing with said system software to generate a screen on said display device on which a user selects a domain, a class and a subclass to input and to search data in said linked tables, said database manager allowing a user to search products meeting a particular criteria including a criteria defined by logical operators.

CLPV:

a data structure comprising a hierarchical data structure programmed and arranged for classifying data in a three tiered hierarchical structure consisting of domains, a highest level, classes, a next level which groups similar products, each domain have its own group of classes, and subclasses having a specific set of components, all products in a subclass having these components, components in a subclass having attributes and attributes having specification values associated with them, said data structure being stored on said storage device as a series of linked tables, each said table having at least one primary key field and a junction table having a plurality of fields, said junction table providing links to other tables in the data structure, wherein said linked tables include a product domain table identifying product domains, each said product domain being linked to a product table which identifies manufactured or published products by part number and description or a service by an offering number and description, said descriptions being formatted according to concatenation rules, said product table being linked to a component table containing component information, a pricing table containing pricing and leasing information, and a warranty table



containing warranty information, wherein said component table includes pre-defined, standard component types with filled-in specification values such that when product components and product component specifications are added, a user may choose from a list of common components to copy thereby promoting efficiency and data integrity, said component table further being linked to a component specification table which includes information on the pre-defined, standard component types with filled-in specification values and to a component group specification type usage table which contains information associating subclass component types to subclass component type specification types, and wherein said warranty table linked to said product table includes information on a warranty program, if any, of a product in said product table, said information on the warranty program including a price of the warranty program, time period when the warranty program is in effect, and conditions under the warranty program; and

CLPV:

a database manager programmed, a and arranged for managing said data structure to allow users to input and search for specific products based on component criteria, said database manager interfacing with said system software to generate a screen on said display device on which a user selects a domain, a class and a subclass to input and to search data in said linked tables, said database manager allowing a user to search products meeting a particular criteria including a criteria defined by logical operators.

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## Document Number 7

Entry 7 of 8

File: USPT

Jan 23, 1990

US-PAT-NO: 4894908

DOCUMENT-IDENTIFIER: US 4894908 A

TITLE: Method for automated assembly of assemblies such as automotive assemblies and system utilizing same  
 DATE-ISSUED: January 23, 1990

### INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Haba, Jr.; Anthony R.	Lake Orion	MI	N/A	N/A
Clough; S. Craig	Birmingham	MI	N/A	N/A
Koeske; Ronald E.	Fenton	MI	N/A	N/A
Maxwell, Jr.; Richard P.	Redford	MI	N/A	N/A

### ASSIGNEE INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
GMF Robotics Corporation	Auburn Hills	MI	N/A	N/A	02

APPL-NO: 7/ 251341

DATE FILED: September 30, 1988

### PARENT-CASE:

This is a divisional of co-pending application Ser. No. 087,690 filed on Aug. 20, 1987, now U.S. Pat. No. 4,815,190 issued Mar. 28, 1989.

INT-CL: [4] B23P 21/00

US-CL-ISSUED: 29/711; 29/783, 29/784

US-CL-CURRENT: 29/711; 29/783, 29/784

FIELD-OF-SEARCH: 29/430, 29/701, 29/709, 29/711, 29/783, 29/784, 29/787, 29/791, 29/795, 29/799, 198/346.1, 198/465.1, 198/465.2, 198/465.3, 414/222, 414/225, 414/226, 414/269, 414/277, 414/281, 414/331, 414/416, 901/1, 901/6, 901/7

### REF-CITED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
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<u>4531284</u>	July 1985	Matsuura et al.	N/A
<u>4589184</u>	May 1986	Asano et al.	N/A
<u>4648167</u>	March 1987	Horvath	N/A
<u>4651863</u>	March 1987	Reuter et al.	N/A
<u>4674948</u>	June 1987	Hornacek	N/A
<u>4679149</u>	July 1987	Merz	N/A
<u>4703558</u>	November 1987	Makinen	29/784
<u>4764078</u>	August 1988	Neri	N/A
<u>4773523</u>	September 1988	Hansen, Jr. et al.	198/420
<u>4783904</u>	November 1988	Kimura	29/786

#### FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY
39844	April 1981	JP

ART-UNIT: 326

PRIMARY-EXAMINER: Eley; Timothy V.

ASSISTANT-EXAMINER: Rawlins; Andrew E.

ATTY-AGENT-FIRM: Brooks & Kushman

#### ABSTRACT:

Method and system for the automated assembly of power train components along a plurality of interconnected, closed loops within cells of the system wherein parts and/or subassemblies of the components are assembled on the same assembly pallet on which they were robotically kitted. Along some of the loops, the assembly pallets are automatically transferred from kitting stations to assembly stations and from the assembly stations to an unload station where the components or subassemblies are robotically unloaded. The unloaded assembly pallets are then automatically transferred from the unload station to the kitting stations to repeat the assembly process. A mechanical guided vehicle system (MGVS) asynchronously conveys the assembly pallets along the closed loops which form guide tracks between the different stations. An automated guided vehicle system (AGVS) preferably transports part storage pallets to the system from a receiving area. Automated stacking cranes transfer the part storage pallets to and from predetermined part positions within queuing rack structures adjacent the kitting and assembly stations. The queuing rack structures and the automatic stacking cranes form part of an automated storage and retrieval system (AS/RS) which interconnect the different closed loop guide tracks. The queuing rack structure also stores subassemblies loaded on assembly pallets. Manual kitting and assembly areas are also provided. Fastening robots are provided at fastening stations located along selected ones of the guide tracks. A distributed or hierarchical control system controls each of the elements of the system.

19 Claims, 17 Drawing figures

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## Document Number 7

Entry 7 of 8

File: USPT

Jan 23, 1990

DOCUMENT-IDENTIFIER: US 4894908 A

TITLE: Method for automated assembly of assemblies such as automotive assemblies and system utilizing same

## DEPR:

In an effort to reduce the size of the part supply bank, the upper and lower valve bodies are subassembled simultaneously. This is achieved by having robots located on either side of the assembly line. Once the upper and lower valve bodies have been subassembled, the components are mated and fastened together robotically.

## DEPR:

The following functions are supported to control this activity: request material for the cell --the cell controller coordinates all material flow into and out of the assembly cell with a material control manager system. The material control manager system then dispatches automated storage/retrieval (AS/RS) units and/or automated guided vehicles (AGV) as required to perform the actual material transportation function; enter received material into the cell --once materials arrive at the cell, a verification process occurs to insure that the received materials are the correct ones. This verification process is performed by devices (i.e., tag identification systems, vision systems, etc.) within the cell and the results are reported to the cell controller; report errors to the materials manager --if any errors are detected, they are logged and the material control manager is informed of the anomaly condition. The cell controller then interfaces with the material control manager to have the incorrect materials removed in an orderly fashion; track materials within the cell --within the cell, a read/write tag identification system is used to record the contents of the materials handling containers and to keep a log of what operations have been performed on the material. The cell controller monitors this data for error checking and error recovery procedures; and remove materials from the cell --as subassemblies are completed within each cell, they are transferred to the adjacent cell via an AS/RS system. The cell controller notifies the AS/RS controller when completed subassemblies are ready for the transfer. Also, parts for repair are removed by the AGV system in a similar fashion. Production data relative to a part being removed are transferred to the materials management system at this time.

## DEPR:

Otherwise, the cell controller is the focal point for data into and out of the cell. The cell controllers communicate with the AGV and AS/RS controllers, a materials management computer, a plant scheduling computer, and so on.

## DEPR:

An important use of this tag system is to simplify parts tracking as they leave and re-enter the domain of the cell. This occurs, for example, when the parts are picked up by an AGV 22 and taken to a manual build or repair area. Upon arrival at a destination, the parts are identified as necessary. When the parts or assembly is returned to the domain of the cell, they are re-identified.

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[Generate Collection](#)**Search Results - Record(s) 1 through 6 of 6 returned.**☐ 1. Document ID: US 6009406 A

Entry 1 of 6

File: USPT

Dec 28, 1999

US-PAT-NO: 6009406

DOCUMENT-IDENTIFIER: US 6009406 A

TITLE: Methodology and computer-based tools for re-engineering a custom-engineered product line

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 2. Document ID: US 6003012 A

Entry 2 of 6

File: USPT

Dec 14, 1999

US-PAT-NO: 6003012

DOCUMENT-IDENTIFIER: US 6003012 A

TITLE: Methodology and computer-based tools for design, production and sales of customized switchboards

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 3. Document ID: US 5877961 A

Entry 3 of 6

File: USPT

Mar 2, 1999

US-PAT-NO: 5877961

DOCUMENT-IDENTIFIER: US 5877961 A

TITLE: Electronic support work station and method of operation

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 4. Document ID: US 5515266 A

Entry 4 of 6

File: USPT

May 7, 1996

US-PAT-NO: 5515266

DOCUMENT-IDENTIFIER: US 5515266 A

TITLE: Textile spinning machine management system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 5. Document ID: US 5216612 A

Entry 5 of 6

File: USPT

Jun 1, 1993

US-PAT-NO: 5216612  
DOCUMENT-IDENTIFIER: US 5216612 A  
TITLE: Intelligent computer integrated maintenance system and method

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMIC	Image
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☐ 6. Document ID: US 4254329 A

Entry 6 of 6

File: USPT

Mar 3, 1981

US-PAT-NO: 4254329  
DOCUMENT-IDENTIFIER: US 4254329 A  
TITLE: Microfiche information retrieval and control system utilizing machine readable microfiche and visually readable microfiche

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMIC	Image
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## Document Number 1

Entry 1 of 6 *also 1 of 9*

File: USPT

Dec 28, 1999

US-PAT-NO: 6009406

DOCUMENT-IDENTIFIER: US 6009406 A

TITLE: Methodology and computer-based tools for re-engineering a custom-engineered product line

DATE-ISSUED: December 28, 1999

### INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nick; Sascha	Chicago	IL	N/A	N/A

### ASSIGNEE INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Square D Company	Palatine	IL	N/A	N/A	02

APPL-NO: 8/ 986103

DATE FILED: December 5, 1997

INT-CL: [6] G06F 15/24

US-CL-ISSUED: 705/10; 705/1, 364/468.01

US-CL-CURRENT: 705/10; 700/95, 705/1

FIELD-OF-SEARCH: 705/1, 705/7, 705/8, 705/10, 705/29, 364/468.01, 364/468.03, 364/468.13, 364/468.14, 364/468.24, 364/468.02, 364/468.1, 364/468.19, 364/468.12

### REF-CITED:

#### U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
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<u>4310964</u>	January 1982	Murphy	29/469
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<u>4472783</u>	September 1984	Johnstone et al.	364/474
<u>4484289</u>	November 1984	Hemond	364/478
<u>4504919</u>	March 1985	Fujii et al.	364/478
<u>4509123</u>	April 1985	Vereen	364/300
<u>4591983</u>	May 1986	Bennett et al.	364/403
<u>4984155</u>	January 1991	Geier et al.	364/401
<u>5047959</u>	September 1991	Phillips et al.	364/521
<u>5121330</u>	June 1992	Blaha et al.	364/468
<u>5260866</u>	November 1993	Lisinski et al.	364/401
<u>5263164</u>	November 1993	Kannady et al.	395/700
<u>5287267</u>	February 1994	Jayaraman et al.	364/403

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"Switchboard Automatic Throwover System", Square D Co., Feb. 1998, pp. 1-4.

ART-UNIT: 275

PRIMARY-EXAMINER: MacDonald; Allen R.

ASSISTANT-EXAMINER: Meinecke-Diaz; Susanna

ATTY-AGENT-FIRM: Irfan; Kareem M. Golden; Larry I.

#### ABSTRACT:

An in-depth review of a product line is conducted, including customer interviews, in order to identify customer specifications that are more complex than customer needs. Customer needs are quantified, and a reduced set of standard product configuration classes are selected so that about 80% of customer orders based on actual customer needs can be satisfied by the standard product configuration classes, and the remaining orders can be satisfied by custom design. Major components in the standard products are themselves standardized. Manufacture of the standard product is optimized for a one-day manufacturing cycle and separated from the manufacture of the custom designed product. A sales office and manufacturing plant roll-out schedule is implemented and managed by computer-based spreadsheet tools. A product configuration computer program module is interfaced between a product selector and a materials management (MRP) system in order to automate the process of entering orders, designing the standard product, ordering parts, and scheduling assembly of standard product.

69 Claims, 61 Drawing figures

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## Document Number 1

Entry 1 of 6

File: USPT

Dec 28, 1999

DOCUMENT-IDENTIFIER: US 6009406 A

TITLE: Methodology and computer-based tools for re-engineering a custom-engineered product line

### ABPL:

An in-depth review of a product line is conducted, including customer interviews, in order to identify customer specifications that are more complex than customer needs. Customer needs are quantified, and a reduced set of standard product configuration classes are selected so that about 80% of customer orders based on actual customer needs can be satisfied by the standard product configuration classes, and the remaining orders can be satisfied by custom design. Major components in the standard products are themselves standardized. Manufacture of the standard product is optimized for a one-day manufacturing cycle and separated from the manufacture of the custom designed product. A sales office and manufacturing plant roll-out schedule is implemented and managed by computer-based spreadsheet tools. A product configuration computer program module is interfaced between a product selector and a materials management (MRP) system in order to automate the process of entering orders, designing the standard product, ordering parts, and scheduling assembly of standard product.

### BSPR:

A product configuration computer program is used in order to determine whether a customer specification can be satisfied by a standard product configuration, and if not, to warn a sales engineer of a penalty associated with the required custom design and assembly, and to indicate why the specification could not be met by a standard product configuration. If the customer specification can be satisfied by a standard product configuration, then the product configuration program automatically generates a standard product configuration to meet the customer specification, including an assembly drawing and a bill of materials for the specific item to be manufactured. Preferably, the product configuration program provides a link between a product selector and a materials management (MRP) system, in order to automate the process of entering orders, designing the standard product, ordering parts, and scheduling assembly of the standard product.

### DEPR:

The MRP system program manages an inventory data base 229 and schedules the ordering of parts and the timing of manufacturing operations. The status of the parts inventory and the schedule for manufacturing operations can be reviewed by a MRP manager 230 at a computer terminal 231. The digital computer system 220 also is programmed with an order-to-payment system 232 that manages and automates all order entry, billing, invoicing, and shipping information processing for all standard as well as custom switchboard orders. The digital computer system 220 provides seamless integration of the order-to-payment functions with the functions of the product selector 223, the switchboard configuration program module 225, and the MRP system program 224.

### CLPR:

14. The method as claimed in claim 13, wherein the integrated computer

system automatically schedules manufacturing of standard products and ordering of parts for the standard products.

CLPR:

26. The method as claimed in claim 25, wherein the integrated computer system automatically schedules manufacturing of standard products and ordering of parts for the standard products.

CLPR:

45. The method as claimed in claim 44, wherein the digital computer system is programmed with a product selector program and a materials management system program, and the method further includes operating the digital computer system for entering the customer orders, automatically producing the manufacturing instructions for the standard design configurations, automatically ordering parts for the items manufactured according to the manufacturing instructions for the standard design configurations, and automatically scheduling assembly of the items manufactured according to the manufacturing instructions for the standard design configurations.

ORPL:

Robert M. Curtice, Product Structure Data Systems, "Production & Inventory Management--4th Qtr," Arthur D. Little, Inc., (1973) pp. 27-37.

ORPL:

Mather, H.F., "Design, Bills of Materials, and Forecasting--the Inseparable Threesome", Production and Inventory Management, First Quarter 1986, Journal of the American Production and Inventory Control Society, vol. 27, No. 1, pp. 90-107.

Main Menu	Search Form	Result Set	Show S Numbers	Edit S Numbers	Referring Patents
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DIALOG(R) File 16:Gale Group PROMT(R)  
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04294635 Supplier Number: 46294157 (USE FORMAT 7 FOR FULLTEXT)  
**Computervision Introduces Optegra Explorer, New Visualization Tool -  
Innovative Electronic Product Definition Software Provides Decision  
Support Access to Broader Marketplace**  
News Release, pN/A  
April 10, 1996  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 756

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

...dimensional visualizer that allows individuals to navigate and view all types of data, including complex **product** systems and subassemblies. A key element in Computervision's Electronic **Product** Definition (EPD) strategy, Optegra Explorer allows non-CAD users to make informed decisions about **product** form, fit and **function** through visualization. All individuals involved in the **product** life cycle -- design engineers, project **managers**, procurement agents, designers, shop floor assembly technicians and others -- will benefit from using this new...

...informed decisions." Optegra Explorer Optegra Explorer, a CAD/CAM independent application, presents data as a **product structure**, a **hierarchical tree** form which displays the relationships between subassemblies and **components**, and which contains all attribute information **related** to the **product**. Users can perform real-time queries to determine project status, work in progress, information on...

...such as costs roll-ups, weight roll-ups, and bills of material. While analyzing the **product** structure, users can concurrently navigate the three-dimensional CAD models of the assembly using the...

...three-dimensional models to any desired orientation; measure the distance between objects; manipulate an individual **component**; and browse (graphically and nongraphically) on selected objects. Optegra Explorer is designed for mixed environments...

...may be involved. For example, using Optegra Explorer an automotive supplier can graphically identify all **components** of a design in a particular area or zone -- even though the **components** may have been designed by other suppliers or team members -- before undertaking follow-on activities, such as interference detection or the placement of additional **components**. Collaborative Tools for EPD The EPD strategy is Computervision's proven all-digital approach to developing, delivering, and maintaining **products** throughout their life cycle. EPD integrates the entire suite of **product** and collaborative process tools, enabling all groups involved in a **product** life cycle -- from design and development to maintenance and repair -- to access the same set of digital **plans** and to work in an optimized, collaborative environment. Optegra Explorer is the newest addition to...

...of EPD Collaborative Tools -- designed specifically to address the needs of a broad range of **manufacturers** and other **product** designers. Today's **manufacturers** need a competitive edge wherever it can be found. They are demanding tools not only for **product** innovation, but also for process innovation.' Optegra Explorer is another EPD tool that fosters collaboration...

...other members of Computervision's collaborative suite to develop seamless creation, storage and retrieval of **product** assembly information from anywhere in a development enterprise. Future upgrades of Optegra Explorer, expected before...

...at \$11,500 and is available immediately. Volume discounts will be

available to customers who plan to widely distribute Optima Explorer within their organization. Computervision Background Computervision Corporation is a leading international supplier of desktop and enterprise-wide **product** development software and services. For more than 25 years, the company's **product** and process data **management** (PDM) and design automation (CAE/CAD/CAM) software solutions have helped **manufacturers** improve **product** quality and reduce time to market. Computervision Services provides best-practices consulting programs to support **product** development process reengineering and technology implementation. Computervision Services also supports applications, systems, and **networks** in heterogeneous computing environments. Computervision is headquartered in Bedford, Massachusetts, and provides sales and support...

...through its offices located throughout the world. Computervision, Computervision Services and the Computervision logo are **registered** trademarks of Computervision Corporation. Electronic **Product** Definition, EPD, and Optegm are trademarks of Computervision Corporation. All other trademarks are trademarks of their respective owners. A copy of this release plus financial, **product** and other company information is available via fax by dialing 1-800- 546-4616. Any questions concerning the service should be **directed** to Investor Relations at Computervision Corporation at 617/275-1800.

24/3,K/2 (Item 1 from file: 160)  
DIALOG(R) File 160:Gale Group PROMT(R)  
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01265573

**Networking auxiliary equipment: The injection molding 'cell'.**  
PLASTICS TECHNOLOGY October, 1985 p. 73-791

Computerized **networking** of injection molding machine-dedicated auxiliary equipment improves **product** quality and **productivity**. True computer-integrated **manufacturing** (CIM) involves top-down **planning** and bottom-up implementation. Computerized auxiliary equipment emerges as a basic building block in the CIM **hierarchical** monitoring and control. CIM works horizontally, integrating all **manufacturing** steps from **part** design (CAD/CAM) to final assembly; and CIM works vertically, **networking** factory-floor data gathering and operational requirements with administrative **functions** such as order entry and **inventory** control. Injection molding cells--a machine and its auxiliary equipment working together to produce a **product**--generally use discrete hard-wired or hard-wired solid-state controls on each **component** of the cell, together with appropriate electromechanical safety interlocks. Personal computers have breathed new life...

... economically, and can provide self-diagnostic capabilities, and communicate with higher-level computational devices and **networks**. Article discusses improved preventive maintenance, where to buy a cell, problems and **products** by company.

27/3,K/1 (Item 1 from file: 16)  
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07010179 Supplier Number: 58583742 (USE FORMAT 7 FOR FULLTEXT)  
**Broadcast TV's future not free; Five top executives sound off.** (Panel Discussion)  
Electronic Media, v19, p1  
Jan 10, 2000  
Language: English Record Type: Fulltext  
Article Type: Panel Discussion  
Document Type: Magazine/Journal; Trade  
Word Count: 7803

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

...a check for how many pairs of pants we sell. EM: Do you see the **current** advertising model **changing** due to the transactional-fee component? Mr. Kellner: You can still have the one that...

...possible demos on the local basis, and to put our stations nationally with our broadcast **network** or our cable **networks**. But going **forward**, what we see happening is turning these people who are viewers into members by signing...

27/3,K/2 (Item 2 from file: 16)  
DIALOG(R) File 16:Gale Group PROMT(R)  
(c) 2000 The Gale Group. All rts. reserv.

06206839 Supplier Number: 54159031 (USE FORMAT 7 FOR FULLTEXT)  
**French pharma & biotech firms reaping benefits of links with academic.** Marketletter, pNA  
March 1, 1999  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Newsletter; Trade  
Word Count: 1595

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

...and financial help with very low rates of interests. Grants are also available, while many **start** -ups often have a solid business **plan** in place so they can approach SOFIMAC, a regional venture capital organization. One such company...

...expertise, it can develop a drug from the design of its dosage form to the **production** of batches. Mr Cardot **added** that MP5 has the necessary structure to aid firms in preparing dossiers for the US...

...the region, which is being carried out with some urgency. Auvergne was the world's **number** one center for the **production** of tyres (Michelin is still the major employer in the area), but it is an...

...of molecular biology services, screening of genotoxic compounds and polymerase chain reaction testing of genetically **modified** foods. The company **currently** has a patent pending on its GeneTEX system which screens genotoxic compounds for anti-tumor...for 1999. Dr Claret said that earnings were strong and if funds are required in **order** to create subsidiaries or acquire **products**, the advantage of being a family concern is that it does not take months to...

...and major pharmaceutical firms, noting that getting into that loop provides a company with a **ready** -made contacts **list**. Mr Maeder claimed that much of his time is presently devoted to maintaining these contacts...

...that is coming out of French faculties. This then has to be harnessed into creating **products** and jobs, he **added**, as the social element of

this academic/financial look up is of primary importance.

27/3,K/3 (Item 3 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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06206648 Supplier Number: 54158798 (USE FORMAT 7 FOR FULLTEXT)

**Get Automated.**

Brantle, Thomas; Patil, Prathap

Wireless Review, pNA

March 31, 1999

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 1593

(USE FORMAT 7 FOR FULLTEXT)

**TEXT:**

...network (TMN) architecture can do all of this and more. Provisioning Physical Resources As wireless **networks** are built, **network** elements are **added** and configured in phases. Capturing a complete and accurate picture of an entire network -- each...

...applications for transport sub-network. By providing a view of the physical connectivity in the **network** as well as work-order tracking for **network** activities, PRM **manages** the provisioning process from the time a **request** is received until physical implementation is complete. An easy-to-use, interactive graphics-based interface...

...the same accurate and up-to-date information. In addition, having central access to the **network order** reduces the time it takes to track **order status** and improve coordination in the provisioning process. PRM also **directly** facilitates surveillance and maintenance activities by providing the gateway interface to other network-operations systems...

...has vital information and configuration data that various organizations need to access. ATP reduces the **number** of **direct** queries and updates, and eliminates a significant **amount** of the load placed on switches. The ATP system also can manage the translation interfaces...need for centralized network translations and provisioning increases, the functionality of the ATP software will **expand** to support intelligent **network** elements such as SCPs for SS7-related updates. Similarly, ATP will accommodate intelligent peripheral elements such as voice-mail systems for updates...

...other applications requiring network information. To ensure adequate capacity always is available, these systems perform **dynamic changes** when call patterns fluctuate (natural-disaster events or concert-ticket sales). When it comes time...

27/3,K/4 (Item 4 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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04805099 Supplier Number: 47070314 (USE FORMAT 7 FOR FULLTEXT)

**Storage: nStor introduces Ultra/Wide cluster-ready RAID solution; New CR8e subsystem increases I/O performance**

EDGE: Work-Group Computing Report, pN/A

Jan 27, 1997

Language: English Record Type: Fulltext

Document Type: Newsletter; Trade

Word Count: 975

(USE FORMAT 7 FOR FULLTEXT)

**TEXT:**

...capability or a multi-host embedded RAID controller; o on-the-fly RAID disk capacity **expansion** and RAID level migration, allowing the



LANadministrator to fine **the network** performance without the costly effort of bringing down the server, and backing up and restoring...

...swappable Single Connector Attached (SCA) disk drives; o redundant active current-sharing hot swappable power **supplies** , with an **expansion** bay for a third power supply, provides a more reliable and smooth transition of **current** when **changing** power supplies, reducing "spikes" and "surges"; o redundant variable-speed, microprocessor controlled, hot swappable cooling...

...advanced Operator Control Panel consisting of an LCD display and keypad entry which provides subsystem **component status** , temperature control monitoring and alarm threshold settings, SCSI-ID assignment, password control and protection for...

...and Intel Corp. and endorsed by more than 12 other leading server and RAID controller **manufacturers** worldwide. **Additional** information about the SAF-TE specification can be found on the World Wide Web at...

...common interface standard for continuously monitoring temperature, drive, power and fan status, and communicating that **status** via a SCSI bus to sophisticated alert **management** utilities. AdminiStor Agent, an advanced GUI alert and configuration utility for NetWare which provides alert...

27/3,K/5 (Item 5 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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04623788 Supplier Number: 46802018 (USE FORMAT 7 FOR FULLTEXT)  
**PeopleSoft Debuts Manufacturing Software**  
News Release, pN/A  
Oct 15, 1996  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 1575

(USE FORMAT 7 FOR FULLTEXT)  
TEXT:  
Function-Rich ERP Solution **Delivers** Real-Time **Planning** and Embedded Workflow NEW ORLEANS, LA, October 15, 1996, APICS Conference, Booth #1208  
-- PeopleSoft, Inc...

...demonstrated at the PeopleSoft exhibit (Booth #1208). PeopleSoft is the first enterprise applications vendor to **deliver** a solution for **manufacturing** that is based on an advanced real-time planning and scheduling system, integrated product configuration...

...a highly customizable, flexible architecture, and embedded workflow technology. PeopleSoft Manufacturing is targeted at discrete **manufacturers** with **production** environments such as make-, build-, and configure-to-**order** , as well as repetitive, mixed mode, and make-to-**stock** . Customers who have already licensed PeopleSoft Manufacturing include: Classic Soft Trim, New England Business Services...

...of PeopleSoft Manufacturing focuses on four core business processes, each of which spans multiple functions: \* **Planning** to **Production** -- includes supply chain, internal resources, and distribution **management** . \* **Order** Creation to Cash Receipt -- includes response to customer needs, **delivery** commitment, **order** fulfillment, and control of lead times. \* Procurement to Payment -- includes **inventory** optimization and supplier management. \* Managing the Enterprise -- includes trend analysis and decision support. PeopleSoft Manufacturing...

...also debut with this release. Customers will typically select a comprehensive solution by combining PeopleSoft **Manufacturing** with the

PeopleSoft Distribution **Products** for Inventory , Purchasing, Order Management , Enterprise Planning , and Product Configuration, as well as PeopleSoft's world class Financials and HRMS products. The PeopleSoft Manufacturing...

...to essential information: tracking and displaying tasks and routing operations assigned to work centers; and **production orders** and quantities **manufactured** at the work center. PeopleSoft Bills and Routings interfaces with the beta version of PeopleSoft Engineering to offer BOM transfers between **manufacturing** and engineering, and integration with engineering change **orders** from PeopleSoft Engineering. \* PeopleSoft **Production Planning** Based on Red Pepper Software's Production ResponseAgent technology, PeopleSoft Production Planning combines Master Scheduling...

...plant system to plan inter-plant demands, distribution center demands, and term transfers. Additionally, PeopleSoft **Production Planning** includes automatic purchase **orders** and **production orders** , automatic application of rescheduling messages for **production orders** , enhanced integration with PeopleSoft **Production Management** , and support for net change for the datalink process. It also aggregates work center capacity...

...and labor requirements, schedule and dispatch production by work center to the minute, and track **production** . It incorporates a flexible **manufacturing** model to produce work **orders** , **production schedules** , rework, teardown, and service **orders** in one system. **Additional** features include serial and lot **number** tracking, subcontracting support, automatic conversion of **planned orders** to **production** , automatic conversion of configured **orders** to **production** , **production** maintenance through PS/nVision, rework **production** , **cancellation** of **production** before it begins, **production** documents including **component** , operation, and dispatch lists, and automatic notification of production replenishment. \* PeopleSoft Cost Management PeopleSoft Cost...

...reporting. It also supports standard functionality such as performing reevaluations, charging actual labor to work **orders** , and performing cost simulations. This application includes **inventory** accounting functionality that enables definition of inventory accounts for storage and production areas, associate raw ...Cost Management. Engineering features in the beta release include: engineering bills of material, engineering change **requests** , engineering change **orders** , engineering document **management** , workflow approval processing, engineering cost rollups and what-if analysis, and copy functionality between PeopleSoft...

...into an optimal inventory location where it can then be used to pick a sales **order** , continue a **production** process, or satisfy any requirement or demand. \* PeopleSoft Product Configurator Currently in beta, PeopleSoft Product Configurator is a rules-based system which enables make-, assemble-, and configure-to-**order** companies to define the characteristics of a **product** in real-time and determine if, when, and how to produce each particular product. It...

...in spreadsheet-like product matrices that are simple to create and maintain. It provides a **dynamic** dialog that **changes** based on the features and options chosen and can be used remotely by sales representatives...

...creates top-level assemblies as well as subassemblies. It also provides configuration pricing and creates **production orders** for configured **items** , further reducing cycle time and manual effort. Pricing and Availability PeopleSoft Bills and Routings, Production...

...for all PeopleSoft products starts at \$100,000 per application and varies depending on software **products** licensed, **number** of users, and **size** of organization. About PeopleSoft PeopleSoft Inc. (NASDAQ: PSFT) was established in 1987 to provide innovative...

27/3,K/6 (Item 6 from file: 16)  
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04480412 Supplier Number: 46577473 (USE FORMAT 7 FOR FULLTEXT)  
**WESTINGHOUSE BEGINS PHASE TWO ROLL-OUT OF SHERPA PRODUCT DATA MANAGEMENT  
(PDM H) SYSTEM**  
News Release, pN/A  
July 29, 1996  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 1233

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

...announced that its Product Data Management (PDM) system installation at the Westinghouse Power Generation Business **Unit** (PGBU) in Orlando, Florida has been **expanded** on **schedule** to serve some 1,400 users at ten locations in North America. With the expansion...

...with a single, centralized repository that enables authorized users throughout the company to access and **update current** product information. As a result, manufacturers can manage, organize and leverage a common database of...

...management throughout the product lifecycle and across the extended enterprise. "At Westinghouse, the system is **delivering** significant gains in **productivity**," said Jay Pandya, PGBU **manager** of technical information management. Using networked desktop PCs or workstations, authorized users can access drawings...

...cataloged at each local site. The saved minutes translate into a significant boost in engineering **productivity**. In May, for example, the system on average **delivered** more than 3,000 documents daily. With so many drawings, saving just a few minutes on each adds more than a 1,000 hours of **productivity** per week. "Even greater savings will come as we **expand** the system to enable users to capture existing data for re-use in new projects ...

...re-engineered for use in new projects. Data may also be integrated with other design **management** applications to support work flow processing, change **order** tracking, bill of materials, as well as **manufacturing** and customer support. Such capabilities exist today in Sherpa software, but Westinghouse has chosen to...

...for production to begin after a drawing was signed off," said Pandya. "Now we can **deliver** revised, approved drawings more quickly and **production** can be under way in a matter of hours." In addition to saving time, the...and is the leading supplier to the aerospace and defense markets, in addition to medium-size and large companies in the automotive, consumer electronics, medical **product** and telecommunications industries. The company currently has over 55,000 seats installed at 475 sites...

31/3,K/1 (Item 1 from file: 16)  
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07065648 Supplier Number: 59561131 (USE FORMAT 7 FOR FULLTEXT)  
**Chip maker's e-business hits \$10B paydirt. (Company Business and Marketing)**  
Shah, Jennifer Baljko  
Electronic Buyers' News, p5  
Feb 21, 2000  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 812

... Internet to cut data flow between trading partners from three weeks to 48 hours, reduce **inventory** by 70%, and **schedule production** activity around OEM component consumption instead of loose, customer forecasts, said Ray Lucchesi, business operations **manager** at the OEM Platform Solutions Division, Hillsboro, Ore.

These strides reflect a **plan** to reach a third-generation Internet objective that emphasizes "customer-centric" practices and facilitates greater...

...with suppliers and the OEM supply chain, said Paul Otellini, executive vice president and general **manager** of the IABG, Santa Clara, Calif.

"As more companies use the Internet to automate both...  
...flow more efficiently," Otellini said.

To be successful in an environment in which supply-chain **management** and e-business merge, companies must steer away from the second-generation e-business practices...

...orders through the Net, and handle other order-fulfillment functions.

However, users such as purchasing **managers** or supply-chain executives must spend considerable time farming each supplier's site for information...

...format they choose," Otellini said.

Though it's still working on fully implementing the game **plan**, the foundation is already paying off, executives said.

With a third of the company's...

...instance, Intel is working on a "pull" system, or responding to an OEM trigger for **components** rather than stockpiling **inventory** to meet a forecast.

By basing its own **production schedule** and capacity **plans** around consumption, Intel is able to lower **inventory**, increase its flexibility to meet demand, and significantly cut the time it takes when an...

31/3,K/2 (Item 2 from file: 16)  
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06466616 Supplier Number: 54922873 (USE FORMAT 7 FOR FULLTEXT)  
**VISTEON AUTO PARTS INVESTS IN SATELLITE PLANTS.**  
Mexico Business Monthly, pNA  
July, 1999  
Language: English Record Type: Fulltext  
Document Type: Newsletter; Trade  
Word Count: 60

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

Visteon de Mexico **plans** to build satellite factories close to the vehicle **manufacturers** which it **supplies** in **order** to reduce **delivery** times and costs and **inventories**, reports El Financiero (May 25, 1999). The vehicle **parts manufacturing** company says it hopes to increase its sales on the domestic market this year to...

31/3,K/3 (Item 3 from file: 16)  
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05598922 Supplier Number: 48472675 (USE FORMAT 7 FOR FULLTEXT)  
**3 S&P Rates Cooper Cameron's \$500M Shelf Prelim A-/BBB+.**  
Business Wire, p05080239  
May 8, 1998  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 510

... over 10 times. The company has high working capital requirements since it maintains a large **inventory** of small **products** and **manufactures** large **units** on receipt of purchase **orders**, which are **cancelable**, from customers. **Management** practices a conservative financial policy. Share repurchases are limited to modest amounts. The company keeps...

31/3,K/4 (Item 4 from file: 16)  
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05482503 Supplier Number: 48307596  
**Un-stocking the shelves.**  
Thurm, Scott  
San Jose Mercury News, pE1  
Feb 22, 1998  
Language: English Record Type: Abstract  
Document Type: Newspaper; General Trade

ABSTRACT:  
Sun Microsystems Inc.'s Milpitas, CA, factory is using a **production** strategy that reduces its **inventories**. **Production** decision for the company is now based on actual customer **orders** using a carefully orchestrated system of **parts delivery** and assembly **schedule** that will produce a desired computer not less than 24 hours from the time of the **order** which the buyer will get after a day or two. The new system, called just-in-time **inventory**, is a big improvement from three years ago when **production** is decided every three months and often resulted in very high **inventories** of **products** left unsold. ...

31/3,K/5 (Item 5 from file: 16)  
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05269243 Supplier Number: 48028444 (USE FORMAT 7 FOR FULLTEXT)  
**ISLIP Media, Inc. Introduces the MediaKey Digital Library System**  
PR Newswire, p1003PHF007  
Oct 3, 1997  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 1648

... rudimentary digital archives with limited retrieval capabilities. With MediaKey, not only can the news department **catalogue** incoming news feeds for real-time **production**, but the features department can search a video archive of clips about the year, decade...

...benefits of the MediaKey system are derived from the unique integration of the system's **components**: MediaKey Builder, MediaKey Finder, and MediaKey Logger.

MediaKey Builder is a computer-automated video and...

...the audio signal, and natural language processing determines word relevance. These processes work together to **segment** the media content into video paragraphs, the key element in building searchable video libraries. The...

...audio are digitized into a standards-based MPEG format.

Step 2. The digitized media is **sent** to a processor which generates a topical index and a full-content, time-aligned transcript

...

...ROMs. ISLIP returns fully indexed video on CD-ROMs, hard disks, or other digital media, **ready** to be included into the customer's video storage system.

MediaKey Finder is an intelligent...

...automated indexing process. The most unique search feature is the ability to accurately pinpoint the **requested** information within the video and return only the relevant video paragraphs from the entire video

...

...a computer-generated storyboard for quick viewing. In this view, only the most relevant sub-**sections** of the video paragraph are displayed in frames, and key words defined in the query...

...15-20% of its original length. This patented feature automatically plays only the most important **sections** of the video paragraph in a fraction of the time required to view the entire...

...applications to enhance reports, presentations, or spreadsheets. Text in the form of video transcripts or **director**'s notes can also be exported for re-use.

MediaKey Logger, real-time **cataloging** and search and retrieval software for **production** environments, is currently under development.

System Configuration and Performance

MediaKey Finder software, which is packaged...

31/3,K/6 (Item 6 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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04623788 Supplier Number: 46802018 (USE FORMAT 7 FOR FULLTEXT)

**PeopleSoft Debuts Manufacturing Software**

News Release, pN/A

Oct 15, 1996

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 1575

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

...one system. Additional features include serial and lot number tracking, subcontracting support, automatic conversion of **planned** orders to production, automatic conversion of configured orders to **production**, **production** maintenance through PS/nVision, rework **production**, cancellation of **production** before it begins, **production** documents including component, operation, and dispatch **lists**, and automatic notification of **production** replenishment. \* PeopleSoft Cost Management PeopleSoft Cost Management provides the control and flexibility for companies to **manage** costs throughout the supply chain. It supports multiple methods of costing (standard, actual, weighted average...  
...performing reevaluations, charging actual labor to work orders, and performing cost simulations. This application includes **inventory** accounting functionality that enables definition of **inventory** accounts for storage and **production** areas, associate raw

31/3,K/7 (Item 7 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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04623523 Supplier Number: 46801362 (USE FORMAT 7 FOR FULLTEXT)  
**PeopleSoft Debuts Manufacturing Software; Function-Rich ERP Solution  
Delivers Real-Time Planning and Embedded Workflow.**  
Business Wire, p10151062  
Oct 15, 1996  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 1372

... one system. Additional features include serial and lot number tracking, subcontracting support, automatic conversion of **planned** orders to production, automatic conversion of configured orders to **production**, **production** maintenance through PS/nVision, rework **production**, cancellation of **production** before it begins, **production** documents including component, operation, and dispatch **lists**, and automatic notification of **production** replenishment.

-- PeopleSoft Cost Management PeopleSoft Cost Management provides the control and flexibility for companies to **manage** costs throughout the supply chain. It supports multiple methods of costing (standard, actual, weighted average...

...performing reevaluations, charging actual labor to work orders, and performing cost simulations. This application includes **inventory** accounting functionality that enables definition of **inventory** accounts for storage and **production** areas, associate raw materials, work in process and finished goods accounts with storage locations, allows...

31/3,K/8 (Item 8 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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03303401 Supplier Number: 44561549 (USE FORMAT 7 FOR FULLTEXT)  
**Surviving the UK recovery**  
Eurofood, p11  
April, 1994  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 929

... chain. It has resulted in:

- fully integrated systems connecting retail outlet, distribution and factory
  - re-ordering and delivery of **stock** within a 24 hour cycle
  - improved partnerships between retailers and **manufacturers** where there are mutual interests based on sharing information such as sales volumes, **inventory** level on shelf and distribution centres, replenishment requirements
  - improved **production** **schedules** and reduction of **inventory** in all **parts** of the supply chain
  - fresher **product**
  - consistent product availability in store
  - reduced handling/labour costs
  - less paperwork administration.
- PW research shows...

31/3,K/9 (Item 9 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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03302524 Supplier Number: 44560438 (USE FORMAT 7 FOR FULLTEXT)

**Truck Sales Shift into Heavy Trucks: Manufacturers Compete by Strengthening Service**  
Business Marketing, p3  
April, 1994  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 758

... the demand for heavy trucks are fundamental changes in the economy and leaner, more efficient **manufacturing** techniques. Many large **manufacturers** now use 'just-in-time' **manufacturing** methods, keeping **inventories** low and **ordering** **parts** to suit the pace of demand and **production** **schedules**. That means more frequent **deliveries** of goods hauled over long distances. In addition, many fleets waited out the worst of...

31/3,K/10 (Item 10 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2000 The Gale Group. All rts. reserv.

02353180 Supplier Number: 43087457  
**Coltec Industries - Company Report**  
Investext, pl-23  
June 19, 1992  
Language: English Record Type: Abstract  
Document Type: Magazine/Journal; Trade

ABSTRACT:  
...Consolidated Pro Forma Income Statement 1987-93; Aerospace/Government Segment Revenue Growth Data 1986-93; **Order , Delivery , Inventory & Production** By Boeing **Planes** ; Automotive **Segment** Revenue Growth Data 1986-93; Industrial Segment Revenue Growth Data 1986-93; Revenue Breakdown By...

31/3,K/11 (Item 1 from file: 160)  
DIALOG(R)File 160:Gale Group PROMT(R)  
(c) 1999 The Gale Group. All rts. reserv.

02353183  
**Digital Workers 'Own the Product'**  
BusinessWest November, 1989 p. 25

... Team-workers are cross-trained to change to jobs that may need new skills or **prepare** for new **production** demands. Each **plant** team receives a daily printout of **orders** of what to **manufacture** and a **list** of all the **components** that go into it. At workstation an assembler puts the parts together into a finished...

31/3,K/12 (Item 2 from file: 160)  
DIALOG(R)File 160:Gale Group PROMT(R)  
(c) 1999 The Gale Group. All rts. reserv.

01050411  
**NEW APPROACHES TO AUTO ASSEMBLY: At Windsor, it's not the same old line.**  
American Machinist June, 1984 p. 75-781

... is done with the help of PCs and a computer system. With just-in-time **inventory** control and **parts** **delivery**, a firm **order** **schedule** stays 30 d ahead of **production** and the **plant** has cut its **inventory** 50 percent. The **plant** 's 110 welding robots do more than 1,000 welds. Robots also handle materials-handling



21/3,K/1 (Item 1 item file: 275)  
DIALOG(R) File 275:Gale Group Computer DB(TM)  
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01501293 SUPPLIER NUMBER: 11961017 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Three cases: all CBR, but worlds apart. (case-based reasoning program development tools are described: ReMind, Esteem and CBR Express; use of CBR Express by American Airlines and a typical case are discussed)

RELease 1.0, v92, n1, p10(6)

Jan 31, 1992

ISSN: 1047-935X LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

WORD COUNT: 3086 LINE COUNT: 00235

TEXT:

...Aion has signed a license agreement with Cognitive to incorporate Cognitive's C libraries as **part** of a CBR option with its Aion Development System, a rule-based development tool that...

...to banks (see Release 1.0, 3-90). Last spring it started shipping ReMind, the **product** of an embarrassingly long period of development. So far, the company has sold 15 beta...

...each, and 14 of the current C++ beta for \$10,000 each. That \$10,000 **unit** price for a pc or Mac development tool will continue when formal shipments **start** this spring. Standalone runtimes with the ReMind GUI will cost \$3000 for five (the minimum), but Cognitive expects most customers to use its \$4500 C **function** library to integrate a case library in other applications. They will be charged \$500 per...

...be retrieved using the decision tree. The answer to each question rapidly eliminates a huge **portion** of the case base and allows the search to focus on a tighter and tighter **section** of the case base. When a selection of cases is retrieved, or when there is...

...far include some government agencies, but also commercial companies such as Motorola (help-desk, warehouse **management** to find appropriate **parts** and computer security auditing), Boeing (engineering decisions and **production scheduling**), British Airways (747 maintenance), American Express (to detect when its small-business accounts are spending out of pattern), Nestle, Barclay and NCR. The firm also has a long **list** of prospects, many of which it has done research for. Esteem: We made it cheap ...

...firms such as AT&T, NCR, General Electric and Household International. Esteem's hybrid CBR **product** Esteem sells for a mere \$1995, which seems to be still too high to garner...

...started last October. That was Release 1, built in IntelliCorp's Kappa PC, with C **functions** for nearest-neighbor and template retrieval. The company is working on Release 2, for ...version (new in release 2) will cost \$2995. Each developer license also includes a runtime; **additional** runtimes **start** at \$450. The pc **product** runs under Windows; 5 megabytes of memory is recommended. Its runtime interface is "bland," company...

...allows, but you can dress it up with ToolBook or other GUI tools. The Esteem **product** grew from a **number** of customer-specific applications. One example is the Bidder's Associate, currently in use by salespeople at Enginetics, an aerospace **parts manufacturer** in Dayton, Ohio. Those salespeople use spreadsheets to record and **manage** their bids for **parts manufacturing** contracts. Basically, the spreadsheet is a smart form into which salespeople enter the customers' requirements...

...000 for the first developer copy, including certain facilities of ART-IM and 10 runtimes. **Additional** developer tools cost \$10,000, and **additional** runtimes cost \$4000 or less. The pc version, with the pc version of ART-IM, starts at \$10,000 for the developer version, with runtimes also starting at \$4000. (**Unit** pricing is the same, but you can't buy the mainframe version without at least...

...Express customer. It's building a CBR help-desk system for its SABRE Travel Information **Network** division, which sells a turnkey back-office system, Agency Data Systems, to travel agencies. STIN...

...basics. Its help-desk is also typical, dealing with such issues as printer drivers, memory **management**, application interactions - and of course the ubiquitous computer that wasn't plugged in. It supports...

...separate software modules and a variety of hardware. American acquired the system last summer and **plans** to put it into use this summer. American picked CBR Express for the usual reasons...

...tracking system, and of course to handle customer calls efficiently, quickly and consistently. Originally, the **plan** was just to use Verity's Topic text-retrieval system to **manage** access to on-line documentation, but they had misidentified the problem (so to speak): it...

...problems so much as identifying the problems, especially for new customer-support reps, says project **manager** Lynden Tennison. Now American is still **planning** to use Topic for on-line documentation, but CBR Express will handle the first step...

...cases differing only by a word or two. One important task was creating a synonym **list**, so that knobs, buttons, switches and the like are all recognized as the same thing...

...Tennison created a style guide to force consistency on the four developers and eventually four **domain** experts (senior support reps) who create cases for the system. As a practical matter, it...

...that you can't get a user to tell you about. In addition, if you **start** with cases, you end up with a lot ...automatic heuristics to reduce the search space to a subset for most queries. Moreover, a **hierarchical** system is fairly rigid in its classifications and expects correct answers; nearest-neighbor is extremely...

...typing in a short problem description. For example: "This dog don't hunt." The first **section** of the runtime module uses simple text-search techniques to matching tool to rank probable...

...operator has to enter relevant information, using words that discriminate well between cases. Whereas a **direct** user of a public system might type a lot of irrelevant stuff, an experienced operator...

...end, the system depends on sensible operators, and a particular case base contains a limited **domain**. Now the user must answer some of the questions **listed** with the top-ranked cases; usually five or ten of them are displayed, a **number** set by the user. The questions are **listed** (unduplicated) in **order** of weight for the highest-ranked case, the second case, and so on. The user...

...two even with the various performance aids activated. While there's a large, possibly proliferating **number** of discrete, unique cases, the system's efficiency is maximized and the user's time...

...What kind of processor does it use?" An enhancement is the use of background rules **added** in ART-IM, such as "If the user has said the self-test works, don't ask whether the **unit** is plugged in" - or a rule to that effect. (You could also build an ART...

...reflect an insufficient case base and the question may need to be reinstated later. A **domain** expert can use CBR Express's test-case facility to find redundant or "missing" cases...

...answers to the questions under consideration, and rescore only those.) Once again, it produces a **list** of the highest-ranked matches to the target case. At this point, the operator can...

...Once again, the system adjusts the scores of the cases involved, and

produces a new list . This goes on until the system flashes a match, the user gives up, or the...

21/3,K/2 (Item 1 from file: 636)  
DIALOG(R) File 636:Gale Group Newsletter DB(TM)  
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03825689 Supplier Number: 48305393 (USE FORMAT 7 FOR FULLTEXT)

**RED BRICK SYSTEMS: Red Brick ships Red Brick Warehouse 5.1**

M2 Presswire, pN/A

Feb 20, 1998

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 1469

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

...Brick Warehouse 5.1 (C)1994-98 M2 COMMUNICATIONS LTD RDATE:110298 \* New version of **relational** database for data warehousing offers features designed to maximize **productivity** , reduce complexities and cut costs Red Brick Systems, Inc. (NASDAQ:REDB), The Data Warehouse Company...

...5.1 on UNIX and NT platforms. Red Brick Warehouse is the industry's leading **relational database management system** designed from the ground up for data warehousing. Version 5.1 offers new features designed to maximize **productivity** , reduce overall cost of ownership and minimize complexities for data warehouse administrators and users. New...

...1 include Red Brick Vista, a ground-breaking, server-integrated solution for the computation and **management** of aggregates; and SQL-BackTrack for Red Brick Warehouse, a backup and recovery system designed...

...Erickson, president and CEO of Red Brick Systems. "In addition, we believe our customers will **directly** benefit from this version in terms of reduced time, cost and resources to **manage** their data warehouse. These administrative advances are designed to improve their ability to **manage** large-scale warehouses, in terms of both data and users." Red Brick Warehouse 5.1...

...Warehouse 5.1 is designed to help data warehouse administrators improve data warehouse tuning, maximize **productivity** through features such as aggregate **management** and an administrator GUI interface, and reduce data warehouse cost of ownership by decreasing time...

...and disk space requirements. The features new to Red Brick Warehouse 5.1 address issues **related** to very large and complex data warehousing environments. Red Brick Vista Red Brick Vista is a comprehensive, server-integrated solution for aggregate computation and **management** . Vista maximizes the query response time benefits of aggregation, while minimizing aggregation costs such as those **related** to storage requirements, maintenance, **planning** and programming. Vista provides efficiency of scale for large data warehouses and **delivers** multi-dimensional-like speed combined with the openness and reliability of a **relational** database. Vista is comprised of three **components** : \* Aggregate Advisor A subsystem feature that helps the administrator decide which aggregates to create and...

...the ability to audit aggregate performance based on actual system usage. \* Query Rewrite A revolutionary **part** of the system that provides a better alternative to coding end-user query tools with aggregate knowledge. The Query Rewrite **function** transparently transforms SQL queries into aggregate-aware queries from any set of heterogenous client tools...

...provides the information required to process query rewrites, track aggregate table validity and capture the **hierarchies** found in business dimensional models. SQL-BackTrack for Red Brick Warehouse SQL-BackTrack for Red...

...safety, consistency and speed of recovery. SQL-BackTrack for Red Brick Warehouse offers industry-leading **product** reliability from BMC Software, Inc. and provides high-performance backup and recovery features to reduce complexities and help improve administrator **productivity**. TARGETjoin Red Brick Warehouse 5.1 introduces TARGETjoin, a new join algorithm, to its family...

...tandem with Red Brick's other join technologies gives data warehouse users the flexibility to **manage** any level of query complexity with excellent performance and low cost. Red Brick Warehouse Administrator...

...graphical Windows-based client tool designed to give data warehouse administrators the ability to easily **manage** all general warehouse tasks, with an emphasis on segmentation, or partitioning. This tool is available ...

...administrator or end user intervention. These advances help improve performance on queries that contain aggregation **functions** such as COUNT, MIN or MAX on indexed columns. Red Brick Warehouse 5.1 also offers partitioned parallel aggregation technology to improve performance in queries with large **numbers** of GROUP-BYs. Integrated Enterprise Control and Reporting Enterprise Control and Coordination (ECC), Copy **Management** and RISQL Reporter modules provide **functionality** to streamline the data warehouse administrator's **management** of the data warehouse. Previously available as elective options, these modules are now included as **part** of Red Brick Warehouse 5.1. The integration of these features in the database provide...

...of ownership and better database value. Customers upgrading to version 5.1 will receive this **functionality** at no **additional** cost. VIPS Chooses Red Brick Warehouse 5.1 VIPS, a business **unit** of First Data Corporation and located in Towson, MD, is a leader in providing healthcare...

...VIPS' solutions are designed to shrink the cost of processing and adjudicating claims; enable the **delivery** of cost-effective, high-quality care; and **stop** the financial drain of health care fraud. "In **order** to provide the highest quality of care and maintain operation efficiencies, healthcare organizations need to track patient 'events' - from diagnosis to cure. Our data warehouse decision support **product**, MCSource, enables **managed** care organizations to assemble and analyze these events, evaluating their outcomes and the means by which care was **delivered**," said Kevin Barber, VIPS' Chief Technology Officer. Barber **added** : "The volume and richness of the data required by MCSource to perform such analyses appear overwhelming. VIPS selected Red Brick as our underlying **RDBMS** for MCSource, based on its specialized technology for decision support, ability to handle massive amounts...

...data and superior performance. Red Brick Warehouse 5.1 gives us even more flexibility in **managing** the complexities of our data warehouse requirements. We believe its advances in join technology and...

...000. SQL-BackTrack for Red Brick Warehouse is available immediately on UNIX, with NT availability **scheduled** for the first half of 1998. Red Brick Warehouse 5.1 can be purchased **directly** from Red Brick or through authorized Red Brick value- **added** resellers, system integrators, consulting partners and distributors worldwide. Red Brick also has joint marketing and licensing agreements with several hardware **manufacturers**. Information can be obtained through Red Brick Systems **direct** sales offices in the United States and United Kingdom, or by calling (800) 777-2585...

...based in Los Gatos, Calif., is a leading provider of comprehensive, integrated, high- performance software **products** and services for data warehousing. Its flagship **product**, Red Brick Warehouse, is the world's fastest and most scalable **relational** database for data warehousing, including data marts, online analytical processing (OLAP) and data mining.

Red...

...superior decision-making. Red Brick, the Red Brick logo and The Data Warehouse Company are **registered** trademarks and TARGETjoin, Red Brick Vista and Red Brick Administrator are trademarks of Red Brick Systems, Inc. SQL-BackTrack is a trademark of BMC Software, Inc. All other trademarks and **registered** trademarks are the property of their respective holders. Red Brick, Red Brick Warehouse, and STARjoin are trademarked by Red Brick Systems. All other trademarks, **registered** trademarks and service marks are the property of their respective holder

24/3,K/1 (Item 1 from file: 275)  
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01501293 SUPPLIER NUMBER: 11961017 (USE FORMAT 7 OR 9 FOR FULL TEXT)

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RELease 1.0, v92, n1, p10(6)

Jan 31, 1992

ISSN: 1047-935X LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

WORD COUNT: 3086 LINE COUNT: 00235

TEXT:

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24/3,K/2 (Item 2 from file: 275)  
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01459062 SUPPLIER NUMBER: 11522100 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
New workflow system "goes beyond Staffware, Workhorse and Rhapsody" -  
Grossenbacher. (Product Announcement)

Nov 21, 1991

DOCUMENT TYPE: Product Announcement

ISSN: 0268-716X

LANGUAGE:

ENGLISH

RECORD TYPE: FULLTEXT

WORD COUNT: 457

LINE COUNT: 00040

... held Swiss concern whose heritage lies with industrial automation, has branched off into computer-integrated **manufacturing** with its first software engineering tool, a package called PACE, that it believes represents a new generation in graphical modelling. The software is targeted at three market **segments**, the hottest of which is workflow **management**. Designed in conjunction with the Swiss Federal Institute of Technology in Zurich, PACE is based...

...depict organisational structures (groups, departments, divisions) graphically through icons; simultaneously to model information (orders, mail, **production** flow) flowing through those structures; simulate and statistically analyse workload, efficiency and profitability; interface with office automation **functions** to produce documents, print, send electronic mail, activate batch processes, or do SQL **functions** to a database; generate the code for the PACE-defined and modelled applications; and implement the workflow on the target system. Strategic **product manager** Alfred Escher says PACE goes beyond anything currently available, including London's StaffWare, Dublin's...

...will work on both Unix and MS-DOS machines, he says, as well as in **networked** environments. Grossenbacher envisions the software used on the factory floor for industrial automation programming, in operations **planning** and at the administrative and organisational level as an expert system tool. PACE has been...

...is just now being released. Grossenbacher is looking to build a worldwide multi-channel distribution **network** for PACE, and will be in the US this week scouting out OEM customers, distributors and large accounts at Unix Expo. It believes some **parts** are still missing from its workflow **functionality**, such as a specific set of user interface **functions** and standard hooks to major office automation packages. To fill in the gap, it will...

...such verticalised software more widely. Demonstration software is available for a fee. The package will **list** for 15,000 Swiss francs or around \$10,000. In the next iteration, the company...

...PACE contains an integrated graphical editor, interactive simulator and visual animator. It is equipped with **hierarchical** nets, reuseable subnet libraries and interactive syntax consistency checks.

24/3,K/3 (Item 3 from file: 275)

DIALOG(R)File 275:Gale Group Computer DB(TM)

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01446926 SUPPLIER NUMBER: 11046416 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Doing CASE on Windows 3.0. (Learmonth and Burchette Management Systems

Inc.'s Systems Engineer CASE software) (Software Review) (evaluation)

Ormrod, Tracy-Anne

EXE, v6, n1, p20(5)

June, 1991

DOCUMENT TYPE: evaluation

ISSN: 0268-6872

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 3100

LINE COUNT: 00235

TEXT:

...marketed its own method LSDM. The first CASE tool LBMS produced, Automate, marked a new **direction** for the company, whose subsequent strategy has been based around the **production** of CASE tools with the training, methods and consultancy activities as peripheral. LBMS's Systems



Engineer was originally destined for Windows 386. A prototype was commissioned and a completed **product** emerged onto the market in Spring 1990 to run under Windows 3.0. Systems Engineer...

...Systems Engineering and SSADM V4. The tool uses SQLBase, Gupta Technology's powerful client-server **relational database management system**. By using SQLBase as the development platform LBMS has chosen to build their tool with...

...preferably 6 MB) and about 30-40 MB of hard disk space to accommodate the **product** and a reasonable size of project. The review machine was a Research Machines Nimbus 386...

...main help facility, to enable users to get to grips with the tool quickly. The **product** arrives with a set of three manuals, a system **manager**'s guide, a guide to the use of Windows and the menu **functions**, and an application guide, describing each facility within SE, the use of the Design Editor...

...in the usual manner. Facilities offered are: Data Models, Data flow diagrams, Dialog Design, Data **Inventory**, **Functional** Analysis, Project Records, Help, Housekeeping and Sign Off. Selecting a facility either invokes another icon...

...a sign on name and password, entered before access to the facilities menu is granted. **Product** security is in the form of the ubiquitous dongle attached to the printer port. As...

...diagrams being added and used when needed. I started with the Project Records facility to **list** problems and requirements for the system. This facility allows the user to define the problems...

...Records facility, is the General Pictures Application giving three extra picture types to use. A **Network** Entity Life History picture concerned with the time orderings of the transactions, also investigates system...

...tool between analyst and user. Data Flow Diagrams After defining requirements for the system and **producing** a high-level diagram such as the System Structure picture, one would normally continue with...

...gripe with SE came. Because of the method behind SE and its control over the **product**, it is not possible to construct bottom-up. Data flow diagrams in the tool are...the current DFD set, together with discrepancy reporting on data stores, which compares the Data **Items** associated with incoming or outgoing data flows and the data stores itself. Data stores which contain different data **items** from the data **items** on a data flow will be reported on. Data Modelling SE has a comprehensive, but...

...suggests, contains a subset of the entities on the Data Model picture. The entities remain **part** of the original Data Model but can be laid out differently. The advantage of having...

...Modelling techniques within SE allow for the use of entity, operational master, Access Entry Points, **Direct** Relationships, Optional relationships, exclusivity details and exclusivity master notation. Relationships are represented by a line...

...named. The volume and volatility of the relationships can be recorded to work out capacity **planning**. The entities and relationships are placed on the drawing screen in the same point-and-click manner as available in the DFD modelling. The entities are associated **directly** to Data **Items** which can be accessed from a selector **list**. There is no explicit validation, although the tool does prevent you from what it perceives...

...up the prototyping facilities available to the developer. The Screen Applications area has two major **components**: the environment, where the Data **Items** displayed on the screen are defined with five different types of field, and the screen layout where the positions of the Data **Items** and

any other fields are specified, The Data **Items** must be defined first before entering the Screen Map editor and to tie in with your complete design the Data **items** used should already exist on the database. The screen design area allows for difference in...all that can be designed at the moment. The Menu Control Structures let the developer **plan** and describe how the system will interact with the user. By building up a set ...

...tool and Oracle, DB2 and Infor-mix via interfaces. I would like to see this **part** of the tool together with the Pseudocode Editor offering more generation of code and in...

...produce Module Decomposition Charts and pseudocode. A Module is defined in SE as a logical **unit** of processing which can call other modules. Using this definition, a **hierarchical** chart can be built up of the modules. The chart itself does not show any...

...names, design object names, constructs and database access statements. I would like to use this **part** of the tool for transference into the target language or in the future perhaps as...

...SE as the original specification and development tool. Add On Tools Systems Engineer comprises only **part** of the development life-cycle but together with other LBMS tools and the interfaces available...

...language and compiler available. One other tool worth noting, particularly for team leaders or project **managers**, is Workplace. Priced at 1,500 pounds per user, it allows other desk-top tools...

...design information used in the SE design database without the need to know SQL. Other **components** of Workplace address project estimation using estimating parameters tailored precisely to your project and Method...

...immediate access to hypertext documentation on the method without the constraints of a manual. Future **directions** for both SE and LBMS include an object-oriented approach or method, a more generic...

...into the CASE tool arena. Everything considered, the tool will appeal to a much larger **section** of development personnel, not just analysts, but programmers and maintenance personnel as well because it is a **product** that every developer will want on his desk. Tracy-Anne Ormrod is a self-confessed CASE tool and methods freak. Previously employed at Excelerator, she is now a **director** of Applications Technology (049135187), a small consultancy company specialising in systems development, tool advice and...

24/3,K/4 (Item 4 from file: 275)  
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01252518 SUPPLIER NUMBER: 06833377 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Article finder. (index) (EDGE Report)**  
Electronic Design, v36, n15, p93(45)  
June, 1988  
ISSN: 0013-4872 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
WORD COUNT: 50668 LINE COUNT: 04386

... arrays ... B Electronic Design 3/17/88 p145 Aldec ... (ALEC)  
Program converts microcontroller chips to **function** as PLDs with unlimited I/O capacity ... B Electronic Design 3/31/88 p153 Analog...

...Design Tools ... (Analog Workbench) Review of how analog chip design simulations can be optimized for **manufacturability** ... E VLSI Systems Design January '88 p28; 4 pp Analog Design Tools ... (Circuit Design Tool Kit) Analog circuit simulator surpasses Spice, predicts **manufacturing** yields, finds stressed **components** ... A Electronic Design 3/17/88 p95

Analog Design Tools ... (IC Design Tool Kit) Design...

...Design 2/18/88 p69 Analog Design Tools ... Analog CAE goes beyond Spice to predict **manufacturing** yields, find stressed **components** , and more ... A Electronic Design 1/7/88 p111 Analog Design Tools ... The views of... ...to clocked digital devices ... E VLSI Systems Design January '88 p16; 6 pp Arium ... (ECHO) **List** of distributors for ECHO real-time emulator-based C-debug environment ... A EDGE 3/88...more ... A Electronic Design 2/18/88 p117 ECAD ... Tutorial on leaf cell design, a **hierarchical** design with regularity whose building blocks are known as leaf cells ... E VLSI Systems Design...

...to Design Automation Vol. III No. 1 p64; 6 pp EDA Systems ... The view of **director** of business development Tony Zingale on the value of software tools vs the data they...

...Etron RF Enterprises ... (RF Notes No. 4) Program analyzes R, L, C, and transmission-line **networks** , runs on PC ... B Electronic Design 3/17/88 p143 Exel Microelectronics ... (TTL Macro Library...

...No. 1 p50; 5 pp Gould Electronics ... (Expert ASIC) ASIC cell compilers squeeze digital, analog **functions** into ICs ... A Electronic Design 2/18/88 p79 Gould Electronics ... (Netrans) Netlist translator frees...

...to use, and affordable ... A Electronic Design 2/18/88 p118 Harris Semiconductor ... Review of **production** applications for logic synthesis and optimization ... E VLSI Systems Design January '88 p40; 4 pp... ...User's Guide to Design Automation Vol. III No. 1 p40; 6 pp International Microelectronic **Products** ... The views of **director** of strategic marketing Peter Hillen on developments in mixed mode simulation software...E Computer Design...

...under varying conditions ... E Electronic Design 3/17/88 p144; 1 pp Logic Automation ... Bulletin **lists** all Smart-Model behavioral language models...B Electronic Design 3/17/88 p162 Logic Automation...Semiconductor Israel Ltd...Review of a smart system whose acceleration and deceleration techniques allow extracting **register** -transfer-file (RTL) simulation models **directly** from a logic-level schematic ... E VLSI Systems Design February '88 p32; 4 pp Motorola...

...DSP56000 family ... A Electronic Design 3/17/88 p51 Motorola ... (Modular Design System) Software system **supplies** technology-independent toolbox for gate arrays and cell-based logic...B Electronic Design 1/7...

...5 pp Personal CAD Systems ... (Master Designer 386) Multilayer routing, change order processing option are **part** of 286- and 386-based board CAE software ... E Electronic Design 2/4/88 p156...

...CapFast CF1000) Schematic capture program for PCs designs pc boards and PLDs, includes 2000 library **components** ... E EDN 3/31/88 p235; 1 pp Phase Three Logic ... (CapFast CF1000) Schematic capture...

...Calculations ... (uCards System) Printed-circuit board design software for VAX-station 2000 can place 600 **components** , route 20 layers ... B Electronic Design 3/17/88 p145 SDA Systems/ECAD ... (Design Framework) CAE tool vendors join forces, meld **products** , pool R&D ... B Electronic Design 3/17/88 p22 Seattle Silicon ... (Chip Crafter Design...

...program runs on IIP computers ... B Electronic Design 3/3/88 p138 Synopsys ... Review of **production** applications for logic synthesis and optimization ... E VLSI Systems Design January '88 p40; 4 pp...

...User's Guide to Design Automation Vol. III No. 1 p72; 6pp Texas Instruments ... (CCITT **Function** Library) **Function** library **supplies** image compression/decompression according to CCITT Group 3, 4 standards...E EDN 2/4/88...

...Technologies ... (Knowledge Consultant) ASIC design software creates rules for expert systems via graphics ... E Electronic **Products** 1/15/88 p44; 1 pp Trimeter Technologies ... (Schematic Generator) Software generates schematics from netlists...  
...chips for standard ICs ... E Electronic Design 2/18/88 p41; 5 pp Various  
... A **directory** that includes a 10-pp comparison table of available pe-board layout systems ... E VLSI...

...User's Guide to Design Automation Vol. III No. 1 p118; 10 pp Various ... A **directory** that includes a 14 pp comparison table of available CAE systems ... E VLSI Systems Design's User's Guide to Design Automation Vol. III No. 1 p96; 14pp Various ... A **directory** that includes an 8-pp comparison table of available IC layout systems ... E VLSI Systems... applications ... E EDN 2/18/88 p61; 4 pp Various ... Review of available CAE data-management and integration software **products** ... E Computer Design 1/1/88 p27; 3 pp Various ... Review of available circuit simulators ...

...January '88 p36; 2 pp Various ... Review of developments in CAE software packages ... E Electronic **Products** 2/1/88 p24; 6 pp Various ... Review of developments in computer-aided software engineering...

...Various ... Review of developments in software for translating CAE simulation into test vectors ... E Electronic **Products** 2/15/88 p13; 3 pp Various ... Review of modeling strategy developments in software for...  
...pp Viewlogic Systems ... (Workview 2000, 3000) Engineering software breaks 640-kbyte barrier of MS-DOS, **manages** 50,000-gate designs on PC...E Electronic Design 3/31/88 p134; 1 pp...

...the ability to handle larger boards as well as analog and digital simulations ... E Electronic **Products** 3/15/88 p54; 0.5 pp Visionics ... (EE Designer) Analog simulation module completes line fo CAE/CAD **products**  
... B Electronic Design 3/17/88 p145 VLSI Technology ... (VGT100) Datapath and state-machine compilers...

24/3,K/5 (Item 1 from file: 621)  
DIALOG(R) File 621:Gale Group New Prod.Annou.(R)  
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01367328 Supplier Number: 46294157 (USE FORMAT 7 FOR FULLTEXT)  
**Computervision Introduces Optegra Explorer, New Visualization Tool - Innovative Electronic Product Definition Software Provides Decision Support Access to Broader Marketplace**

News Release, pN/A  
April 10, 1996

Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 756

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

...dimensional visualizer that allows individuals to navigate and view all types of data, including complex **product** systems and subassemblies. A key element in Computervision's Electronic **Product** Definition (EPD) strategy, Optegra Explorer allows non-CAD users to make informed decisions about **product** form, fit and **function** through visualization. All individuals involved in the **product** life cycle -- design engineers, project **managers**, procurement agents, designers, shop floor assembly technicians and others -- will benefit from using this new...

...informed decisions." Optegra Explorer Optegra Explorer, a CAD/CAM independent application, presents data as a **product structure**, a **hierarchical tree** form which displays the relationships between subassemblies and **components**, and which contains all attribute information **related** to the **product**. Users can perform real-time queries to determine project status, work in progress, information on...

...such as costs roll-ups, weight roll-ups, and bills of material. While analyzing the **product** structure, users can concurrently navigate the three-dimensional CAD models of the assembly using the...

...three-dimensional models to any desired orientation; measure the distance between objects; manipulate an individual **component**; and browse (graphically and nongraphically) on selected objects. Optegra Explorer is designed for mixed environments...

...may be involved. For example, using Optegra Explorer an automotive supplier can graphically identify all **components** of a design in a particular area or zone -- even though the **components** may have been designed by other suppliers or team members -- before undertaking follow-on activities, such as interference detection or the placement of additional **components**. Collaborative Tools for EPD The EPD strategy is Computervision's proven all-digital approach to developing, delivering, and maintaining **products** throughout their life cycle. EPD integrates the entire suite of **product** and collaborative process tools, enabling all groups involved in a **product** life cycle -- from design and development to maintenance and repair -- to access the same set of digital **plans** and to work in an optimized, collaborative environment. Optegra Explorer is the newest addition to...

...of EPD Collaborative Tools -- designed specifically to address the needs of a broad range of **manufacturers** and other **product** designers. Today's **manufacturers** need a competitive edge wherever it can be found. They are demanding tools not only for **product** innovation, but also for process innovation.' Optegra Explorer is another EPD tool that fosters collaboration...

...other members of Computervision's collaborative suite to develop seamless creation, storage and retrieval of **product** assembly information from anywhere in a development enterprise. Future upgrades of Optegra Explorer, expected before...

...at \$11,500 and is available immediately. Volume discounts will be available to customers who **plan** to widely distribute Optegra Explorer within their organization. Computervision Background Computervision Corporation is a leading international supplier of desktop and enterprise-wide **product** development software and services. For more than 25 years, the company's **product** and process data **management** (PDM) and design automation (CAE/CAD/CAM) software solutions have helped **manufacturers** improve **product** quality and reduce time to market. Computervision Services provides best-practices consulting programs to support **product** development process reengineering and technology implementation. Computervision Services also supports applications, systems, and **networks** in heterogeneous computing environments. Computervision is headquartered in Bedford, Massachusetts, and provides sales and support...

...through its offices located throughout the world. Computervision, Computervision Services and the Computervision logo are **registered** trademarks of Computervision Corporation. Electronic **Product** Definition, EPD, and Optegm are trademarks of Computervision Corporation. All other trademarks are trademarks of their respective owners. A copy of this release plus financial, **product** and other company information is available via fax by dialing 1-800- 546-4616. Any questions concerning the service should be **directed** to Investor Relations at Computervision Corporation at 617/275-1800.

24/3,K/6 (Item 1 from file: 636)  
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04043524 Supplier Number: 53413403 (USE FORMAT 7 FOR FULLTEXT)  
FUJITSU: Portuguese developments for Fujitsu.

M2 Presswire, pNA

Nov 17, 1998

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 1237

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

...range of market-leading telecommunications solutions represents a dynamic combination. Fujitsu Telecommunications Europe Limited's **Managing Director**, Mr Michio Kono, commented: "We have had a long-standing relationship with Elotecnico over many...

...which we are involved - our ability to fulfil the strategic supply and support of access **networks** is a key element. "We have appointed Victor **Lister** Franco as **managing director** of Elotecnico, as of immediate effect, with the brief to integrate the combined talents of...

...s technology, in line with the opportunities presented by the Portuguese market. We are also **planning** a dynamic presence at the region's key trade show in November - EXPOTELECOM 98 - where...

...facilities in Massama, on the outskirts of Lisbon. The 1300 sq metre location comprises a **production plant**, plus service and engineering, purchasing, installation, maintenance and a dedicated training centre. 189 staff in...

...22 November 1998 in Lisbon - Fujitsu Elotecnico Telecomunicacões S.A. is showing a comprehensive cross-section of its leading edge access **network** solutions, complemented by its Telecommunications **Management Network** (TMN)-compliant range of **network management** solutions. Focused on providing strategic end to end solutions, Fujitsu offers a complete turnkey service - from project **planning**, community liaison, cable laying and civil engineering to the complete installation, implementation and ongoing maintenance...

...centre stage on Stand No: 305 are: \* FSX2000 Fujitsu's FSX2000 is a flexible Access **Network** multiplexer that **functions** as a true SDH node in an inter-office or customer access SDH optical fibre **network**. The FSX2000 is supported by a range of auxiliary equipment including indoor and outdoor cabinets and open racks and can support both Narrowband and Broadband services. A sophisticated **Network Management** System is integrated in the FSX2000 to provide operation, maintenance and **management functions**, with multi-vendor multi-technology **management** capability. \* Access SDH State of the art technology enables Fujitsu's latest access system, SDH (Synchronous Digital **Hierarchy**) to be deployed in the access **network** for the very first time. The technology, involving fibre delivery SDH, SDH Radio and HDSL copper technologies, is complemented by Fujitsu's turnkey TMN-compliant **network management** systems. \* APON The FePX600 ATM Passive Optical **Network** has the ability to reduce access costs dramatically and builds upon the benefits of the...

...offer advantages for multi-media service provision, such as transportation of ATM cells across the **network** and SDH interface to core and access **network**. This **product**, which conforms to the GX specification, is being developed to meet global requirements for Full Service Access **Network** (FSAN). \* ADSL A range of state of the art solutions for ADSL (Asymmetrical Digital Subscriber Line) applications, involving access technology and **network management** systems for delivery of the latest Multi-Media and Internet services. \* FENS **Network Management** Fujitsu's Expandable **Network Management** Systems are all TMN-compliant, providing a range of sophisticated systems for integrated, multi-vendor multi-technology **management**, leading to reduced operational costs. \* FETEX 150 All-Band Switching System Delivering bandwidth on demand ...

...within a single system concept. \* FENS EHS The Event Handling System

provides AC & DC power **management** , environmental **management** , hazard monitoring, intruder detection, access control and rack alarm **management** , integrating legacy telecommunications equipment alarms with TMN. \* Telephones A range of analogue, ISDN and DECT...

...banking and services. \* Line Test Systems A centralised automatic line test system for the subscriber **network** of telecom operators, capable of covering areas with millions of subscribers. \* PABXs Private communications solutions...

...customers through Elocom, the Joint-Venture company with Matra Communication. The new Matra 6500 PABX **product** range covers from 4 to 8000 extension lines and supports new services, such as CTI applications, integrated mobile DECT extensions, data solutions, hotel applications, ACD, call centres, LCR and **networking** . For the SOHO (Small Office Home Office) market, Matra is launching the MC450I, which is...

...Elotecnico Telecomunicaciones S.A. will illustrate its ability to provide both a large range of **products** and systems, together with a full capability as a major service provider at all levels track record for **product** and service innovation, with its high profile customer base including wide-ranging contracts in the access **network** environment. Its **product** range encompasses advanced solutions for Synchronous Digital **Hierarchy** (SDH) **networks** , hybrid Narrowband/Broadband Switching systems, Fibre Access Systems, Radio Access Systems, Passive Optical **Networks** and ISDN applications, complemented by its comprehensive range of TMN-compliant **Network Management** Systems. As a strategic division of Fujitsu Telecommunications of Japan - currently one of the world...

...has an extensive research and development resource at its Birmingham location and also operates as **part** of Fujitsu's global **manufacturing** resource. In addition to the R&D capabilities, the facilities at the Birmingham site include sophisticated surface mount technology **production** , accompanied by a dedicated support facility, a large customer training centre and a thriving external **plant** organisation. This is supported by additional European operations - in addition to its Portuguese operation, the company also has an R&D centre in Northern Ireland, alongside a **manufacturing plant** and a service centre, complemented by regional offices in Spain, the Nordic countries and Belgium...

...1273 441200 Fax: +44 (0)1273 441300 e-mail: mail@garrett-axford.co.uk  
Victor **Lister** Franco, Fujitsu Elotecnico Telecomunicaciones S.A. Tel: +351 1 472 8840 Fax: +351 1 472...

24/3,K/7 (Item 2 from file: 636)  
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04013062 Supplier Number: 53201820 (USE FORMAT 7 FOR FULLTEXT)

-ARBORTEXT: **Arbortext** introduces **Epic**.

M2 Presswire, pNA

Nov 10, 1998

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 2190

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

...of **Epic** - the industry's first Extensible Markup Language (XML) based framework for the Enterprise **Product** Information Chain, available November 30, 1998. **Epic** provides a framework for integrating new capabilities with existing infrastructure, as well as **functionality** to meet the needs of specific vertical markets. Also announced are **Epic** applications for the telecommunications and computing markets with additional vertical market applications **planned** in 1999. Today's global companies continue to strive for improved time-to-market to maintain their competitive advantage. However, the pace of **product** development depends

in **part** on the accurate and timely flow of **product** information, which is often shared within groups but is ineffectively shared across groups. This is...

...entire supply chain," said Bob Crowley, CEO and president, Arbortext. "Arbortext is focusing on the **product** information chain to help enterprises achieve dramatic improvements in time to market with new **products** and services." The Enterprise **Product** Information Chain The Enterprise **Product** Information Chain encompasses the creation, **management**, delivery and use of document information **related** to a company's **products** and services. Groups involved in this chain include research, engineering, technical documentation, marketing, sales, services, suppliers and customers. These groups contribute or require information for **product** design, **manufacturing**, sales, operation and servicing. Documentation for **product** information includes **functional** requirements, design specifications, **product catalogs**, user guides, services manuals and reference books. With the advent of the web, companies are...

...to wasted time on data conversion and lost information as content moves across the Enterprise **Product** Information Chain from one department to another. Rita Knox, vice president and research **director** for GartnerGroup in a Strategic Analysis Report, September 1998 noted, "One of information technology's...

...humans and machines...By year-end 1999, 20 percent of all documents (e.g. strategic **plans**, marketing literature, technical literature, repair manuals) will not only deliver accurate and pointed information, but...

...exceed the use of HTML for publishing applications (0.9 probability)." Epic's Features and **Functionality** For over a decade, Arbortext has helped large organizations develop customized systems for the **product** information chain. To make the benefits of these custom systems available to other medium- and...

...for such systems - a framework called Epic. Epic is an innovative solution that streamlines the **product** information chain by allowing document data to flow freely through a common set of tools...

...creation, review, editing and publishing of complex documents. Arbortext has customized Epic to bring specific **product** information applications to the telecommunications and computing markets. In 1999, Epic applications will be available for other **manufacturing** and publishing markets such as aerospace, automotive, heavy industrial, semiconductors, financial services and government sectors. "Our organization continually strives to adopt best-of-breed **products** and technology so that we can stay on the cutting edge of quality solutions and support," said David Robinson, electronic marketing **director**, AT&T. "That's why we're so keen to adopt Arbortext's new Epic...

...and support costs. Supporting both native XML and SGML, this standards-based system offers tremendous **functionality**, such as a **hierarchical** document view for easy editing and navigation, a WYSIWYG-like view that makes document structure...

...see how the final document will look in print and on the Web. Key Epic **functionality** includes: \* Personalization - Using Epic's audience profiling capabilities, authors can easily select the appropriate audience profile for each document **component** such as skill level, release number, model number, and other attributes. \* Automatic publishing - On the...

...index of key words for hyperlinking to associated terms. \* Elimination of data conversion - With the **product**'s seamless connections across departments, organizations can realize a significant reduction in data conversions. \* Facilitation...ADEPTEditor and the Epic system will provide state of the art tools for handling our **manufacturing** instructions," stated Mark Rutkiewicz, CRM documentation **manager** at Guidant. "In our applications, the accuracy, control and flexibility of information are crucial to ensure the quality of our **products**." Epic's authoring client,



which is based on ADEPTEditor, the leading authoring and editing tool...

...learning and eases use. Because ADEPTEditor is easily configurable, Arbortext was able to design a **product** that provides the flexibility needed to tailor workflow and data structures for the unique needs...

...leverage existing installations of Microsoft Word through Epic's built-in conversion from Word. The **product**'s **component** framework allows organizations to plug in existing software, such as authoring tools, publishing systems and document **management** systems, to leverage their existing investments. Epic's built-in connections to a variety of document repositories allow users to browse or search the repository and select **components** for insertion into the existing open document without leaving the Epic system. This makes reusing...

...To enhance usability and increase adoption speeds of Epic, Arbortext has embedded best-in-class **components** delivered through strategic partnerships with Microsoft Corporation and OmniMark Technologies Corporation. Additionally, Arbortext is collaborating...

...partners including Documentum and Sherpa Corporation to ensure that Epic integrates smoothly with these partners' **products**. Installation and configuration services are currently provided through Arbortext's Consulting Services Group and will...

...ve achieved real advantage by implementing an end-to-end standards-based system for creating, **managing** and delivering **product** information. It's exciting to see Arbortext be the first to deliver a complete solution...

...react quickly to maintain its leadership position. By using SGML/XML, our efficiency in creating **product** information has improved significantly. Arbortext is an important partner for implementing state-of-the-art...

...partner with strong commitments to current and future XML standards." "As the leading provider of **network** computing systems, we continuously strive to leverage leading-edge technology to speed time to market, improve quality and ensure customer loyalty," said Todd Freter, program **manager**, Solaris Software, Sun Microsystems, Inc. "Several years ago we adopted Arbortext's authoring and publishing software to dramatically improve **productivity** of our information developers. Building on these improvements, we're excited about Arbortext's new...

...competitive advantages. Every second counts when your goal is first-to-market. Systems for the **product** information chain can make the difference." Rauhauser continued, "As a provider of telecommunications **products** and services to valued customers around the world, we continually incorporate customer feedback into what...

...technology partners Documentum and Microsoft. "For years, Arbortext and Documentum have partnered to provide SGML **management** capabilities in a wide variety of industries," said Matt Shanahan, vice president of **product** marketing for Documentum. "Epic's native integration with Documentum's EDMS 98 combines XML with a common enterprise repository to capture and reuse information throughout the enterprise **product** information chain." Microsoft Corp. recently demonstrated the latest XML technologies it will add to Microsoft...

...create vast amounts of structured documents have struggled with finding the right tool to easily **manage** the daunting task of creating, editing and publishing information," said David Turner, XML evangelist, Microsoft ...is the leading provider of standards-based enterprise software solutions that enable companies to share, **manage** and reuse vital information across the enterprise **product** information chain. Global 5000 organizations such as The Boeing Company, Caterpillar, Inc., Digital Equipment Corporation... Company, Grolier's Encyclopedia, Lockheed Martin, National Semiconductor, and Sun Microsystems, Inc., use Arbortext's **products** to

create, deliver, and reuse information. Arbortext's customers achieve dramatic improvements in business-critical...

...Tokyo. The company has more than 150 employees worldwide. For more information about Arbortext's **products**, consulting services and training programs, contact Arbortext at +1 734.997.0200, send email to...

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24/3,K/8 (Item 3 from file: 636)  
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03898610 Supplier Number: 50064692 (USE FORMAT 7 FOR FULLTEXT)

-NOVELL: ITT Fluid Technology standardizes on Novell's GroupWise messaging/collaboration solution

M2 Presswire, pN/A

June 10, 1998

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 808

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

...collaboration solution (C)1994-98 M2 COMMUNICATIONS LTD RDATE:090698  
--Chooses Novell solution for worldwide **network** serving 6,500 users  
Provo, Utah -- Novell, Inc. (NASDAQ:NOVL) today announced that ITT Fluid...

...Microsoft Exchange, Microsoft Mail, and Lotus CC Mail across the ITT Fluid Technology global information **network**, providing users with integrated e-mail and groupware applications. ITT Fluid Technology evaluated available enterprise...

...mail and other applications over the Internet, and integration with NDS (Novell's industry-leading **directory** service) and **related network management** tools available on Novell's NetWare intelligent **network** server platform. "GroupWise enables us to leverage our Novell **network** infrastructure and roll-out a full-featured e-mail and collaboration solution without incurring large...

...Infrastructure Chief of Technology for ITT Fluid Technology. "We gain powerful new workflow and document **management** tools, available right out of the box. At the same time, we can continue to build on the **directory** -enabled **networking** services and tools that Novell's NetWare platform provides." By enabling single-point administration through its master **directory**, NDS, GroupWise 5 allows **network** administrators at ITT Fluid Technology to centrally and **hierarchically manage** users, groups, **network** devices and applications. NDS helps ITT Fluid Technology reduce the time and cost of **network** administration and take advantage of **directory** -enabled tools such as Novell's new Z.E.N.works solution to distribute client software and **manage** user desktops. "GroupWise also allows us to expand the added **network functionality** we get from NetWare, including the ability to quickly add and delete users from the Messaging system and the **network**," said Kiolbasa. A further advantage of GroupWise for ITT Fluid Technology is GroupWise WebAccess, which...  
...to GroupWise. This allows remote and mobile users to read and send mail, check calendars, **listen** to voice mail, and view attachments, tasks, and notes over the Internet. As an international...

...the same system. About GroupWise 5.2 Novell's GroupWise 5.2 seamlessly

integrates calendaring/~~scheduling~~ , task **management** , shared folders, threaded conferencing, workflow, remote and Internet access into a Universal Mail Box. GroupWise...

...Messaging solution. Novell's next GroupWise release, GroupWise 5.5, is now in beta and **scheduled** for release later this year. About ITT Fluid Technology ITT Fluid Technology, with headquarters in...

...is one of the three core businesses of ITT Industries and the world's leading **manufacturer** of pumps, systems and services for the movement, measurement and control of fluids. ITT Industries (<http://www.ittind.com>) is a leading worldwide diversified **manufacturing** company, with 1997 sales of \$8.6 billion in its three primary business **segments** : Automotive, Defense and Electronics, and Fluid Technology. ITT Industries **stock** is traded under the symbol (IIN) on the Midwest, Pacific, London, Frankfurt and Paris exchanges. About Novell Founded in 1983, Novell (NASDAQ:NOVL) is the world's leading provider of **network** software. The company offers a wide range of **network** solutions for distributed **network** , Internet/intranet and small-business markets, as well as the **network** computing industry's most comprehensive education and technical support programs. Information about Novell and its complete range of **products** and services can be accessed on the World Wide Web as <http://www.novell.com>. GroupWise, Novell and NetWare are **registered** trademarks and NDS is a trademark of Novell, Inc. All other trademarks are the property...

24/3,K/9 (Item 4 from file: 636)  
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03825689 Supplier Number: 48305393 (USE FORMAT 7 FOR FULLTEXT)

**RED BRICK SYSTEMS: Red Brick ships Red Brick Warehouse 5.1**

M2 Presswire, pN/A

Feb 20, 1998

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 1469

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

...Brick Warehouse 5.1 (C)1994-98 M2 COMMUNICATIONS LTD RDATE:110298 \* New version of **relational** database for data warehousing offers features designed to maximize **productivity** , reduce complexities and cut costs Red Brick Systems, Inc. (NASDAQ:REDB), The Data Warehouse Company...

...5.1 on UNIX and NT platforms. Red Brick Warehouse is the industry's leading **relational database management system** designed from the ground up for data warehousing. Version 5.1 offers new features designed to maximize **productivity** , reduce overall cost of ownership and minimize complexities for data warehouse administrators and users. New...

...1 include Red Brick Vista, a ground-breaking, server-integrated solution for the computation and **management** of aggregates; and SQL-BackTrack for Red Brick Warehouse, a backup and recovery system designed...

...Erickson, president and CEO of Red Brick Systems. "In addition, we believe our customers will **directly** benefit from this version in terms of reduced time, cost and resources to **manage** their data warehouse. These administrative advances are designed to improve their ability to **manage** large-scale warehouses, in terms of both data and users." Red Brick Warehouse 5.1...

...Warehouse 5.1 is designed to help data warehouse administrators improve data warehouse tuning, maximize **productivity** through features such as aggregate **management** and an administrator GUI interface, and reduce data warehouse cost of ownership by decreasing time...

...and disk space requirements. The features new to Red Brick Warehouse 5.1

address issues **related** to very large and complex data warehousing environments. Red Brick Vista is a comprehensive, server-integrated solution for aggregate computation and **management**. Vista maximizes the query response time benefits of aggregation, while minimizing aggregation costs such as those **related** to storage requirements, maintenance, **planning** and programming. Vista provides efficiency of scale for large data warehouses and delivers multi-dimensional-like speed combined with the openness and reliability of a **relational** database. Vista is comprised of three **components** : \*

- Aggregate Advisor A subsystem feature that helps the administrator decide which aggregates to create and...

- ...the ability to audit aggregate performance based on actual system usage.
- \* Query Rewrite A revolutionary **part** of the system that provides a better alternative to coding end-user query tools with aggregate knowledge. The Query Rewrite **function** transparently transforms SQL queries into aggregate-aware queries from any set of heterogeneous client tools...

- ...provides the information required to process query rewrites, track aggregate table validity and capture the **hierarchies** found in business dimensional models. SQL-BackTrack for Red Brick Warehouse SQL-BackTrack for Red...

- ...safety, consistency and speed of recovery. SQL-BackTrack for Red Brick Warehouse offers industry-leading **product** reliability from BMC Software, Inc. and provides high-performance backup and recovery features to reduce complexities and help improve administrator **productivity**. TARGETjoin Red Brick Warehouse 5.1 introduces TARGETjoin, a new join algorithm, to its family...

- ...tandem with Red Brick's other join technologies gives data warehouse users the flexibility to **manage** any level of query complexity with excellent performance and low cost. Red Brick Warehouse Administrator...

- ...graphical Windows-based client tool designed to give data warehouse administrators the ability to easily **manage** all general warehouse tasks, with an emphasis on segmentation, or partitioning. This tool is available ...

- ...administrator or end user intervention. These advances help improve performance on queries that contain aggregation **functions** such as COUNT, MIN or MAX on indexed columns. Red Brick Warehouse 5.1 also...

- ...numbers of GROUP-BYs. Integrated Enterprise Control and Reporting Enterprise Control and Coordination (ECC), Copy **Management** and RISQL Reporter modules provide **functionality** to streamline the data warehouse administrator's **management** of the data warehouse. Previously available as elective options, these modules are now included as **part** of Red Brick Warehouse 5.1. The integration of these features in the database provide...
  - ...of ownership and better database value. Customers upgrading to version 5.1 will receive this **functionality** at no additional cost. VIPS Chooses Red Brick Warehouse 5.1 VIPS, a business **unit** of First Data Corporation and located in Towson, MD, is a leader in providing healthcare...

- ...organizations need to track patient 'events' - from diagnosis to cure. Our data warehouse decision support **product**, MCSource, enables **managed** care organizations to assemble and analyze these events, evaluating their outcomes and the means by...

- ...by MCSource to perform such analyses appear overwhelming. VIPS selected Red Brick as our underlying **RDBMS** for MCSource, based on its specialized technology for decision support, ability to handle massive amounts...

- ...data and superior performance. Red Brick Warehouse 5.1 gives us even more flexibility in **managing** the complexities of our data warehouse requirements. We believe its advances in join technology and...

...000. SQL-BackTrack for Red Brick Warehouse is available immediately on UNIX, with NT availability **scheduled** for the first half of 1998. Red Brick Warehouse 5.1 can be purchased **directly** from Red Brick or through authorized Red Brick value-added resellers, system integrators, consulting partners and distributors worldwide. Red Brick also has joint marketing and licensing agreements with several hardware **manufacturers**. Information can be obtained through Red Brick Systems **direct** sales offices in the United States and United Kingdom, or by calling (800) 777-2585...

...based in Los Gatos, Calif., is a leading provider of comprehensive, integrated, high-performance software **products** and services for data warehousing. Its flagship **product**, Red Brick Warehouse, is the world's fastest and most scalable **relational** database for data warehousing, including data marts, online analytical processing (OLAP) and data mining. Red...

...superior decision-making. Red Brick, the Red Brick logo and The Data Warehouse Company are **registered** trademarks and TARGETjoin, Red Brick Vista and Red Brick Administrator are trademarks of Red Brick Systems, Inc. SQL-BackTrack is a trademark of BMC Software, Inc. All other trademarks and **registered** trademarks are the property of their respective holders. Red Brick, Red Brick Warehouse, and STARjoin are trademarked by Red Brick Systems. All other trademarks, **registered** trademarks and service marks are the property of their respective holders. CONTACT: Carolyn Hughes, Red ...

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03537549 Supplier Number: 47310488 (USE FORMAT 7 FOR FULLTEXT)  
**SOCIAL POLICY: GREEN PAPER ON A NEW FORMS OF WORK ORGANISATION**  
European Report, pN/A  
April 19, 1997  
Language: English Record Type: Fulltext  
Document Type: Newsletter; Trade  
Word Count: 1324

... has indeed shown that modernising the organisation of work is of fundamental importance for improving **productivity**. The Green Paper focuses on the development of work organisation in companies and public entities...

...is no single concept of a new organisation of work: this implies replacing rigid and **hierarchical** structures with increasingly innovative and flexible structures based on qualifications, increased trust and greater worker participation. The modernisation of work organisation can only be achieved by firms themselves, involving **management** and workers and taking account of the diverse nature of the situation in each sector...

...of crucial importance in SMEs, as they represent the principal source of new jobs. Mass **production** and the flexible firm. For almost a century, the organisation of work has generally rested on the same basic principle: a **hierarchical** top-down organisation with a high degree of specialisation and simple, often repetitive jobs. This...

...a tool for the emerging industrial society, transforming the economy from handicraft to industrial mass **production**. During the 20th century, this type of work organisation spread all over the industrialised world. For several decades this **production** system has contributed to unprecedented growth in **productivity** and prosperity. During the last 20 to 30 years, the limitations of this way of organising work have become evident. Work split up into narrow **functions** with short repetitive work cycles does not leave sufficient room for a process of upgrading...

...the opportunity to exercise judgement, develop social contacts and

learn. A first step in this **direction** was taken through the introduction of a parallel development organisation such as quality circles. The...

...trust and high skill workplaces. Factors for change. The transformation to a new mode of **production** (there is no single model but an infinite variety) can be explained by three factors...

...on the way workplaces are organised. In traditional economic thinking, labour is a factor in **production** in the same way as land and capital. It is a cost that must be reduced. However, in a globalised economy, the rate of innovation and change in **products** and technologies is so rapid that the competitive advantages of companies and countries will be...

...both in goods and services. Extreme competition in the market-place forces firms to organise **production** in such a way that changing consumer preferences can be met. Competitiveness and success will...

...on the innovative capacity and adaptability of firms, and less on the traditional concept of **producing** more of the same at low prices. During the last 20-30 years a new...

...has begun, with the introduction of information and communication technologies (see separate article in this **Section** ). One of the main effects of the new ICTs has been a spectacular reduction in...

...the beginning of this technological revolution, the economic consequences were rather poor in terms of **productivity** growth. But there are now a growing number of examples where the introduction of ICTs...  
...must therefore be developed, including greater worker participation in decision-making, for example, since efficient **production** requires enhanced levels of both trust and commitment in firms. The concepts of workplace, firm...

...diversification leading to the erosion of traditional employment relations. Down-sizing, outsourcing, subcontracting, tele-working, **networking** and joint ventures bring new dimensions to the world of for which traditional labour law...relations agenda. Wage systems, working time, taxation, social security, tele-working are among a long **list** of areas affected by new forms of work organisation. In each of these areas the...

...then examine the document on May 29. In addition, a number of national seminars are **planned** for the present year. The Green Paper is addressed to the social partners, to Member...

...the social field, etc. Written comments should be sent by November 30 to: European Commission **Directorate** General V Rue de la Loi, 200 B-1049 Brussels Belgium e-mail: DG5-Partnership...

24/3,K/11 (Item 6 from file: 636)  
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01773831 Supplier Number: 42953742 (USE FORMAT 7 FOR FULLTEXT)

**Principles of Object-Oriented Design**

Financial Technology Insight, pN/A

May, 1992

Language: English Record Type: Fulltext

Document Type: Newsletter; Trade

Word Count: 1933

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

...object is a member of a specific class, and this defines its properties. Classes are **related** to one another through inheritance. Aggregation and generalization are forms of inheritance which permit existing...

...etc., whilst the class **employee** might be defined as the generalization of the classes **branch manager**, **teller**, **ledger clerk** etc. Specialization is the reverse process of generalization, creating a new class...

...operations. Objects are identified by the noun occurrences within the description, and represent the information **domain**. Operations, which are identified by verb occurrences, represent the processing associated with the information **domain**. The identification of objects and their attributes is the foundation for the creation of the...

...their interfaces, i.e. the messages that are passed between them. - Impact on Software Development **Productivity** Object-oriented software offers a number of potentially powerful features for the design of complex systems, and for the **management** of changes in data, and system **functionality**, over long periods of time. Proponents of OOD argue that one of the problems with...

...object, it should be possible to ignore all other objects. The question of why software **production** has failed to follow the pattern set by hardware is a vexed one. It has...

...of software design through the exploitation of object classes and inheritance. A well designed class **hierarchy** enables the software engineer to create new objects by building upon the properties inherited from...

...believe that the goal of building systems from 'software ICs', selected 'off the shelf' from **catalogues** of objects, will finally be achieved. In summary, claims that OOD improves software **productivity** rest on four basic premises: 1. Objects and classes reduce the difficulties of translating complex real world situations into systems. In conventional programming languages, the designer must map the problem **domain** onto predefined data and control structures. In OOD, the designer can create objects and classes which closely match those in the problem **domain**. It is argued that inheritance is a powerful tool for capturing data semantics, and that...

...and so helps economize on implementation and maintenance effort. 3. The re-use of standard **components** reduces development time and reduces the code size. A company can build up libraries of...are so localized. The Software Engineering Institute at Carnegie Mellon University has defined five software **development** 'maturity levels', which range from 'chaotic happy hacking' at level one, to the application of a systemic...

...are still below level two on this scale. OOD promises to help improve the maturity **level** of software **development**. The naturalness of the object notion facilitates moving smoothly from requirements via analysis and design...

...as much as 50%. There is also confirmation for code re-usability promoting gains in **productivity**. In some cases, reductions of 5:1 in the amount of code required for a...

...been found to raise their own design problems, however. A simple example is whether some **part** of an object should be represented as an instance variable, or inherited as a **component** class. Decisions of this kind may be of trivial importance in small scale systems and...

...of large scale software projects. For example, the integration of software developed under different type **hierarchies** is very difficult. Inheritance may also lead to disadvantages when modifying programs. For example, when...

...the object-oriented approach. The conceptual basis of conventional methodologies such as SSADM is essentially **functional** in nature. Systems are analysed and modelled in terms of information flows and processes **functional** transformations from sets of inputs to sets of output.

Object-oriented design    neither a **functional** nor a data decomposition process. In contrast, its approach is to identify the real world objects that belong to the problem **domain** , and then classify them. Conventional methodologies require that the designer first establish what the system...

...strategy for tackling the problems of maintenance and system evolution. In the OOD view, system **functionality** is far more likely to change over time than are the objects from which the...

...apparent to software engineers, many of those who are charged with the responsibilities of project **planning** and **management** have yet to be convinced.



27/3,K/1 (Item 1 from file: 621)  
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01439000 Supplier Number: 46802018 (USE FORMAT 7 FOR FULLTEXT)

**PeopleSoft Debuts Manufacturing Software**

News Release, pN/A

Oct 15, 1996

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 1575

✓ P

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

Function-Rich ERP Solution **Delivers** Real-Time **Planning** and Embedded Workflow NEW ORLEANS, LA, October 15, 1996, APICS Conference, Booth #1208  
-- PeopleSoft, Inc...

...demonstrated at the PeopleSoft exhibit (Booth #1208). PeopleSoft is the first enterprise applications vendor to **deliver** a solution for **manufacturing** that is based on an advanced real-time planning and scheduling system, integrated product configuration...

...a highly customizable, flexible architecture, and embedded workflow technology. PeopleSoft Manufacturing is targeted at discrete **manufacturers** with **production** environments such as make-, build-, and configure-to-**order**, as well as repetitive, mixed mode, and make-to-**stock**. Customers who have already licensed PeopleSoft Manufacturing include: Classic Soft Trim, New England Business Services...

...of PeopleSoft Manufacturing focuses on four core business processes, each of which spans multiple functions: \* **Planning** to **Production** -- includes supply chain, internal resources, and distribution **management**. \* **Order** Creation to Cash Receipt -- includes response to customer needs, **delivery** commitment, **order** fulfillment, and control of lead times. \* Procurement to Payment -- includes **inventory** optimization and supplier management. \* Managing the Enterprise -- includes trend analysis and decision support. PeopleSoft Manufacturing...

...also debut with this release. Customers will typically select a comprehensive solution by combining PeopleSoft **Manufacturing** with the PeopleSoft Distribution **products** for **Inventory**, **Purchasing**, **Order Management**, **Enterprise Planning**, and **Product Configuration**, as well as PeopleSoft's world class Financials and HRMS products. The PeopleSoft Manufacturing...

...to essential information: tracking and displaying tasks and routing operations assigned to work centers; and **production orders** and quantities **manufactured** at the work center. PeopleSoft Bills and Routings interfaces with the beta version of PeopleSoft Engineering to offer BOM transfers between **manufacturing** and engineering, and integration with engineering change **orders** from PeopleSoft Engineering. \* PeopleSoft **Production Planning** Based on Red Pepper Software's Production ResponseAgent technology, PeopleSoft Production Planning combines Master Scheduling...

...plant system to plan inter-plant demands, distribution center demands, and term transfers. Additionally, PeopleSoft **Production Planning** includes automatic purchase **orders** and **production orders**, automatic application of rescheduling messages for **production orders**, enhanced integration with PeopleSoft **Production Management**, and support for net change for the datalink process. It also aggregates work center capacity...

...and labor requirements, schedule and dispatch production by work center to the minute, and track **production**. It incorporates a flexible **manufacturing** model to produce work **orders**, **production schedules**, rework, teardown, and service **orders** in one system. **Additional** features

include serial and lot **number** tracking, subcontracting support, automatic conversion of **planned orders** to **production**, automatic conversion of configured **orders** to **production**, **production** maintenance through PS/nVision, rework **production**, **cancellation** of **production** before it begins, **production** documents including **component**, operation, and dispatch lists, and automatic notification of production replenishment. \* PeopleSoft Cost Management PeopleSoft Cost...

...reporting. It also supports standard functionality such as performing reevaluations, charging actual labor to work **orders**, and performing cost simulations. This application includes **inventory** accounting functionality that enables definition of inventory accounts for storage and production areas, associate raw ...Cost Management. Engineering features in the beta release include: engineering bills of material, engineering change **requests**, engineering change **orders**, engineering document **management**, workflow approval processing, engineering cost rollups and what-if analysis, and copy functionality between PeopleSoft...

...into an optimal inventory location where it can then be used to pick a sales **order**, continue a **production** process, or satisfy any requirement or demand. \* PeopleSoft Product Configurator Currently in beta, PeopleSoft Product Configurator is a rules-based system which enables make-, assemble-, and configure-to-**order** companies to define the characteristics of a **product** in real-time and determine if, when, and how to produce each particular product. It...

...in spreadsheet-like product matrices that are simple to create and maintain. It provides a **dynamic** dialog that **changes** based on the features and options chosen and can be used remotely by sales representatives...

...creates top-level assemblies as well as subassemblies. It also provides configuration pricing and creates **production orders** for configured **items**, further reducing cycle time and manual effort. Pricing and Availability PeopleSoft Bills and Routings, Production...

...for all PeopleSoft products starts at \$100,000 per application and varies depending on software **products** licensed, **number** of users, and **size** of organization. About PeopleSoft PeopleSoft Inc. (NASDAQ: PSFT) was established in 1987 to provide innovative...

27/3,K/2 (Item 2 from file: 621)  
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01410260 Supplier Number: 46577473 (USE FORMAT 7 FOR FULLTEXT)  
**WESTINGHOUSE BEGINS PHASE TWO ROLL-OUT OF SHERPA PRODUCT DATA MANAGEMENT (PDM H) SYSTEM**  
News Release, pN/A  
July 29, 1996  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 1233

(USE FORMAT 7 FOR FULLTEXT)  
TEXT:

...announced that its Product Data Management (PDM) system installation at the Westinghouse Power Generation Business Unit (PGBU) in Orlando, Florida has been **expanded** on **schedule** to serve some 1,400 users at ten locations in North America. With the expansion...

...with a single, centralized repository that enables authorized users throughout the company to access and **update current** product information. As a result, manufacturers can manage, organize and leverage a common database of...  
...management throughout the product lifecycle and across the extended

enterprise. "At Westinghouse, the system is **delivering** significant gains in **productivity**," said Jay Pandya, PGBU **manager** of technical information management. Using networked desktop PCs or workstations, authorized users can access drawings...

...cataloged at each local site. The saved minutes translate into a significant boost in engineering **productivity**. In May, for example, the system on average **delivered** more than 3,000 documents daily. With so many drawings, saving just a few minutes on each adds more than a 1,000 hours of **productivity** per week. "Even greater savings will come as we **expand** the system to enable users to capture existing data for re-use in new projects ...

...re-engineered for use in new projects. Data may also be integrated with other design **management** applications to support work flow processing, change **order** tracking, bill of materials, as well as **manufacturing** and customer support. Such capabilities exist today in Sherpa software, but Westinghouse has chosen to...

...for production to begin after a drawing was signed off," said Pandya. "Now we can **deliver** revised, approved drawings more quickly and **production** can be under way in a matter of hours." In addition to saving time, the...and is the leading supplier to the aerospace and defense markets, in addition to medium-**size** and large companies in the automotive, consumer electronics, medical **product** and telecommunications industries. The company currently has over 55,000 seats installed at 475 sites...

27/3,K/3 (Item 1 from file: 636)  
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04144304 Supplier Number: 54374091 (USE FORMAT 7 FOR FULLTEXT)

**AUDIO NOTES.**

Audio Week, v11, n15, pNA

April 12, 1999

Language: English Record Type: Fulltext

Document Type: Newsletter; Trade

Word Count: 2617

... of inventory shortages in transition to new ownership. Pres.-CEO Jeffrey Stone said Home Entertainment **inventory** purchase **orders** were "mistakenly **cancelled**" by previous **management** instead of being transferred to Tweeter: "This caused us some sales problems in February and ...

...surmised that leak came from factory. Samsung statement disavowed responsibility for leak and said company **immediately** would **change** regional coding technique on all its decks to make code "totally inaccessible to consumers." "Advancing...ships this month and is first Dolby-certified model to be designed entirely in China, **manufacturer** said. More Japanese CE makers are relocating or **expanding** R&D functions overseas. Kenwood recently transferred home audio development and design to wholly owned...

...provides 2-night rental of Toshiba DVD player for \$16 with 2 free loaner movies; **additional** DVD rentals cost \$5 daily. DVD disc **production** will double at Matsushita's Moriguchi plant in Osaka to 1.2 million discs monthly...

...of Sharp Electronics' revenues in CE category next year, up from 30% now, company said. **Expanded** selection of **products** will include Internet-enabled devices that also connect to home networks. Specifically, company said it...indoors or outdoors respectively, company said. New "Multi-Scene Display" will be produced in 2" **size** for mobile AV **products** and 7" panels for handheld devices and automotive displays. Sharp said

dual-mode color LCD...

...to be industry's smallest. Hologram-type optical pickups will enable TDK further to reduce **size** and weight of electronic **parts** , it said. TDK didn't enter optical pickup market for MiniDisc but said it will...

27/3,K/4 (Item 2 from file: 636)  
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04123757 Supplier Number: 54159031 (USE FORMAT 7 FOR FULLTEXT)  
**French pharma & biotech firms reaping benefits of links with academic.**  
Marketletter, pNA  
March 1, 1999  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Newsletter; Trade  
Word Count: 1595

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

...and financial help with very low rates of interests. Grants are also available, while many **start** -ups often have a solid business **plan** in place so they can approach SOFIMAC, a regional venture capital organization. One such company...

...expertise, it can develop a drug from the design of its dosage form to the **production** of batches. Mr Cardot **added** that MP5 has the necessary structure to aid firms in preparing dossiers for the US...

...the region, which is being carried out with some urgency. Auvergne was the world's **number** one center for the **production** of tyres (Michelin is still the major employer in the area), but it is an...

...of molecular biology services, screening of genotoxic compounds and polymerase chain reaction testing of genetically-**modified** foods. The company **currently** has a patent pending on its GeneTEX system which screens genotoxic compounds for anti-tumor...for 1999. Dr Claret said that earnings were strong and if funds are required in **order** to create subsidiaries or acquire **products** , the advantage of being a family concern is that it does not take months to...

...and major pharmaceutical firms, noting that getting into that loop provides a company with a **ready** -made contacts **list** . Mr Maeder claimed that much of his time is presently devoted to maintaining these contacts...

...that is coming out of French faculties. This then has to be harnessed into creating **products** and jobs, he **added** , as the social element of this academic/financial link up is of primary importance.

27/3,K/5 (Item 3 from file: 636)  
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03469083 Supplier Number: 47152479 (USE FORMAT 7 FOR FULLTEXT)  
**Financial: HP Earnings Rise 15 Percent In First Quarter; Revenue Increases 11 Percent; Orders Up 9 Percent**  
EDGE: Work-Group Computing Report, pN/A  
Feb 24, 1997  
Language: English Record Type: Fulltext  
Document Type: Newsletter; Trade  
Word Count: 1855

... inkjet printers was healthy, but an industrywide move to lower-priced models resulted in moderate **order** growth in dollars for the company's Inkjet **Products** Group. The computer support and services

business achieved very good growth, with on-site hardware...

...support posting healthy increases in all geographies. Services such as selective outsourcing, financing and technology **management** continued to achieve good market acceptance. Quarterly **orders** in the company's test-and-measurement business increased 5 percent over the very strong...

...yield good results, with excellent demand for communications-test products and synchronization systems. The access7 **product** for **network** monitoring also achieved an outstanding increase. **Orders** for semiconductor-test equipment declined compared with very strong orders in last year's first...

...but improved compared with the fourth quarter of fiscal 1996. In the company's medical-**products** group, **orders** grew 6 percent, with increases reported in all geographies. Orders in the chemical-analysis business rose 12 percent, with particular strength in liquid-chromatography **products**. **Orders** in the **components** business declined 12 percent compared with last year's extremely strong first quarter. The company, however, is encouraged by growth of 52 percent in **components orders** compared with the fourth quarter of fiscal 1996. COSTS & EXPENSES Cost of goods sold this...

...environment in the months ahead. Therefore, we'll continue to manage expenses and assets carefully. "Dynamic **changes** across our industry are creating exciting opportunities for HP. These changes put a premium on...

27/3,K/6 (Item 4 from file: 636)  
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03432352 Supplier Number: 47070314 (USE FORMAT 7 FOR FULLTEXT)  
**Storage: nStor introduces Ultra/Wide cluster-ready RAID solution; New CR8e subsystem increases I/O performance**  
EDGE: Work-Group Computing Report, pN/A  
Jan 27, 1997  
Language: English Record Type: Fulltext  
Document Type: Newsletter; Trade  
Word Count: 975

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

...capability or a multi-host embedded RAID controller; o on-the-fly RAID disk capacity **expansion** and RAID level migration, allowing the LANadministrator to fine tune **network** performance without the costly effort of bringing down the server, and backing up and restoring...

...swappable Single Connector Attached (SCA) disk drives; o redundant active current-sharing hot swappable power **supplies**, with an **expansion** bay for a third power supply, provides a more reliable and smooth transition of **current** when **changing** power supplies, reducing "spikes" and "surges"; o redundant variable-speed, microprocessor controlled, hot swappable cooling...

...advanced Operator Control Panel consisting of an LCD display and keypad entry which provides subsystem **component status**, temperature control monitoring and alarm threshold settings, SCSI-ID assignment, password control and protection for...

...and Intel Corp. and endorsed by more than 12 other leading server and RAID controller **manufacturers** worldwide. **Additional** information about the SAF-TE specification can be found on the World Wide Web at...

...common interface standard for continuously monitoring temperature, drive, power and fan status, and communicating that **status** via a SCSI bus to sophisticated alert **management** utilities. AdminiStor Agent, an advanced GUI alert and configuration utility for NetWare which provides

alert...

27/3,K/7 (Item 5 from file: 636)  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
(c) 2000 The Gale Group. All rts. reserv.

02683352 Supplier Number: 45442536 (USE FORMAT 7 FOR FULLTEXT)  
**EDGE OF CHAOS: Current Perspectives on Interactive Advertising Paul Kagan**  
**Conference on Interactive Advertising**  
Multimedia & Videodisc Monitor, v13, n4, pN/A  
April, 1995  
Language: English Record Type: Fulltext  
Document Type: Newsletter; Trade  
Word Count: 2861

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

...interactive advertising, Andrew Jarecki (CEO, Movie Fone) said that people accept the 20-second, non-interruptable promotional **segment** at the front of each call, because they need the information. On the matter of ...agencies make their money from "running ads, not on making ads." Furthermore, in this quickly **changing dynamic**, consumers are ever more "behind the information steering wheel." Leonsis said that the key to...

...shopping service on AOL has a \$78 average purchase, which is two times Home Shopping **Network**'s average **order**, and one-and-a-half times the average paper **catalog order**. According to Leonsis, 50,000 hours of online shopping time was clocked in the first...screen of an application, "because people will be gone before it ever builds." She suggested **updating** often with a **real-time** service orientation, "because it's all annuity building." She reminded attendees that interactive is a

33/3,K/1 (Item 1 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
(c) 2000 The Gale Group. All rts. reserv.

01390306 SUPPLIER NUMBER: 10567625 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**The potential of CIM for production plans. (computer-integrated manufacturing)**  
Harris, David  
DEC User, p29(3)  
Dec, 1990  
ISSN: 0263-6530 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 2433 LINE COUNT: 00191

... The technology to support such a system should take into account both present and future **products**. Manufacturing activities **start** and end with customer **orders**, around which all aspects of **production planning** are centred. In addition, a knowledge of **inventory**, the materials and **parts** required for **production**, the time scale of **production**, operator, machine and other **plant** availability, and invoicing, are amongst the many activities which should be associated with **production planning**.

A database of all customers is required to handle orders efficiently. This should contain...

33/3,K/2 (Item 1 from file: 621)  
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)  
(c) 2000 The Gale Group. All rts. reserv.

01439000 Supplier Number: 46802018 (USE FORMAT 7 FOR FULLTEXT)  
**PeopleSoft Debuts Manufacturing Software**  
News Release, pN/A  
Oct 15, 1996  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 1575

(USE FORMAT 7 FOR FULLTEXT)  
TEXT:  
...system. Additional features include serial and lot number tracking, subcontracting support, automatic conversion of planned **orders** to **production**, automatic conversion of configured **orders** to **production**, **production** maintenance through PS/nVision, rework **production**, cancellation of **production** before it begins, **production** documents including **component**, operation, and dispatch **lists**, and automatic notification of **production** replenishment. \* PeopleSoft Cost **Management** PeopleSoft Cost **Management** provides the control and flexibility for companies to manage costs throughout the supply chain. It...

33/3,K/3 (Item 1 from file: 636)  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
(c) 2000 The Gale Group. All rts. reserv.

02617596 Supplier Number: 45298057 (USE FORMAT 7 FOR FULLTEXT)  
**Quake-hit foreign affiliates face minimal damage**  
Japan Weekly Monitor, pN/A  
Jan 30, 1995  
Language: English Record Type: Fulltext  
Document Type: Newsletter; Trade  
Word Count: 517

... east Asia, Oceania, and North and South America.  
Brushing off supply shortages due to the **production halt**, the official said, "We have sufficient **inventories** to manage export **orders**."

Some **parts** suppliers are closed down, but the company has secured

suppliers in other area he said...

**33/3,K/4 (Item 2 from file: 636)**  
DIALOG(R) File 636:Gale Group Newsletter DB(TM)  
(c) 2000 The Gale Group. All rts. reserv.

01379166 Supplier Number: 41727987 (USE FORMAT 7 FOR FULLTEXT)  
**ELECTRONICS INDUSTRY: EBN'S QUEST INDEX SHOWS BUSINESS ACTIVITY FELL 2.1  
POINTS IN NOVEMBER; "PERVASIVE PESSIMISM"**  
EDGE: Work-Group Computing Report, v1, n29, pN/A  
Dec 10, 1990  
Language: English Record Type: Fulltext  
Document Type: Newsletter; Trade  
Word Count: 368

... to outperform the economy as a whole, as measured by the National Association of Purchasing **Management** index at 41.3.

The QUEST Index is based on five **components** : **production** , new **orders** , **inventories** , vendor **deliveries** and employment. Before being melded into the one composite figure, they are



22/3,K/1 (Item 1 fr file: 9)  
DIALOG(R)File 9:Business & Industry(R)  
(c) 2000 Resp. DB Svcs. All rts. reserv.

01682613 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**CHARLOTTE, N.C., ENJOYS ROLE IN GLOBAL ECONOMY**

**(Charlotte, NC, region shipped manufactured goods worth \$2.1 bil in 1995 versus \$1.8 billion in 1994)**

Charlotte Observer , p N/A

November 18, 1996

DOCUMENT TYPE: Regional Newspaper (United States)

LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 2355

(USE FORMAT 7 OR 9 FOR FULLTEXT)

**TEXT:**

Nov. 18--Every day, the Charlotte region casts forth people, **products** and knowledge to the rest of the world. Charlotte's tentacles touch nearly everywhere. In Mozambique, engineers with a Duke Power subsidiary are helping **plan** a hydroelectric plant. NationsBank corporate lenders visit Beijing to negotiate aircraft- finance deals. Charlotte-based...

...been the domain of large outfits like Ingersoll-Rand's Davidson plant, small and medium-**size** companies are increasingly sending their goods and services abroad. Japanese munch Childers potato chips, made...

...The Charlotte region -- defined as Rock Hill, Gastonia and Charlotte -- shipped \$2.1 billion of **manufactured** goods last year. "That's 40,000 jobs," says Justin Hunt, vice president for export...

...at the Charlotte Chamber. "That's the tip of the iceberg. Those sales represent only **manufacturing** jobs." That \$2.1 billion figure -- up from \$1.8 billion in 1994 -- also fails...

...John Dutton, an N.C. State University business professor who tracks the state's exports. **Manufacturers** report those **numbers** by ZIP code, and frequently the **manufacturer lists** the ZIP code of the plant owner's corporate headquarters, not the plant that makes the **product** , he says. Behind the **numbers** are myriad stories of doing business overseas -- of the relationships, successes and headaches of Charlotte...

...000 loads moved by the Trans Siberian Express Service. It was a box of cigarettes, **ordered** off the platform by a corrupt customs official. The official is now being disciplined, Nichols...

...sure that trains are made up or put together. This can cause delays in the **schedule** . On the other hand, climate can be an advantage for the railroad, which operates much...

...studies major at the University of Richmond, Nichols has long been fascinated by the region. **Part** of the allure, he said, is that "in my education while growing up, history was...

...fly in Germany. "People feel like they're getting ripped off," said Andrea Nestor, trade **director** for Triangle **Products** , the Charlotte export group working with Childers. Well, Americans probably feel the same way. But...

...you better really mean no fat. Childers learned that it has to count the fat **added** by the sunflower oil sprayed on chips ...another plane to Kiev, Ukraine, and finally the 16-hour train ride. David Marcelli, project **manager** for Duke Engineering & Services, braves it just about every month. "If you're not a...

...accident several hours before Marcelli's flight arrived. The wreck shattered the windshield and crushed **parts** of the van. Still, he drove

120 miles to the airport and waited 12 hours...

...about 15 people such as Jonathan Webster fly from Charlotte to Asia. Webster, 35, is **manager** of international information systems for Charlotte-based telecommunications equipment maker Glenayre Technologies Inc. He recently...

...for his third trip to Asia. He is overseeing the installation of an office computer **network** in Glenayre's Beijing office, where the staff is **expanding** from 30 to 60. Webster flew to company offices in Beijing and Singapore by taking...

...to Seoul four times a week and to Beijing three times a week. The one-**stop** flight from Charlotte to Tokyo takes 15 hours, 50 minutes. Glenayre has 15 offices abroad...

...Asia every other month." South Africans were drinking Budweiser at Christmastime last year, thanks in **part** to First Union. The Charlotte bank underwrote the credit of a South African bank whose...

...the bank's relationship with lenders in those countries, whose customers buy beer, textiles, aircraft **parts** and electrical equipment from U.S. companies. The bank began doing deals with South African...

...exporters' concerns about doing business in a country amid political upheaval, said Steven J. Bash, **managing director** for international financial institutions at First Union. As a United Dominion Industries vice president, Bob Shaffer travels extensively, helping make global deals for the Charlotte-based diversified **manufacturer**. Along the way, he has learned a lot about how different people can be. "The...

...about building exports: On July 1, Emil Popa, a Romanian immigrant, started as international sales **director**. "It really is a ...president of sales. His great-grandfather started the company. "One way to grow is to **expand** into foreign markets." Popa has a good base from which to start that **expansion**. The company makes the equipment that fills bottles with Gatorade in the Philippines, Indonesia and...

...religious leaders threatened to go on a hunger strike if Cogentrix's project wasn't **canceled**. Jef Freeman, Cogentrix's vice president of corporate communications, said the report mistook the Cogentrix...

...said. "It will have to be if we are going to be successful." Construction is **scheduled** to start in 1997, and the first phase should be operating in 1999.

**30/3,K/1 (Item 1 from file: 15)**  
DIALOG(R)File 15:ABI/INFORM(R)  
(c) 2000 Bell & Howell. All rts. reserv.

00537321 91-11665

**Interactive Fax Speeds Qualification**

Jacobson, David

Business Marketing v76n2 PP: 58 Feb 1991

ISSN: 0745-5933 JRNL CODE: IMR

...ABSTRACT: Partners Inc. (San Diego, California), a subsidiary of Xerox Corp., uses interactive fax to fulfill **additional** information **requests** and eliminate dubious leads. Ventura distributes a software **catalog** that includes **product** description and code **numbers**. Prospects who want more information enter the product into a fax phone, and the Ventura...

...addition to being able to provide a prospect with instant gratification, Ventura gains the phone **number** of a prospect and the assurance of interest in a specific product. Interactive fax offers...

**30/3,K/2 (Item 2 from file: 15)**  
DIALOG(R)File 15:ABI/INFORM(R)  
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00282958 85-23392

**On the Generalizability of MRP Simulation Results**

Minifie, J. Roberta; Heard, Ed

Engineering Costs & Production Economics v9n1-3 PP: 211-217 Apr 1985

ISSN: 0167-188X JRNL CODE: EPE

ABSTRACT: Previously reported **production** and **inventory** control research has addressed the relative performance of decision rules for specific problems. Highly simplified simulation models were normally utilized because of the **size** and computational burden of added realism. As a result, some powerful interactions between various policy...

... performance data sets. Comparison of the performance of selected lot sizing rules and firm planned **order** horizons, as **additional** experimental factors are added, establishes the importance of interactions in evaluating system performance. ...

**30/3,K/3 (Item 3 from file: 15)**  
DIALOG(R)File 15:ABI/INFORM(R)  
(c) 2000 Bell & Howell. All rts. reserv.

00129069 80-23130

**Bursting the 80-20 Myth**

Dorn, Harold

Geyer's Dealer Topics v145n11 PP: 63-64 Nov 1980

ISSN: 0016-948X JRNL CODE: GEY

...ABSTRACT: account for 80% of sales is an oversimplified half-truth. Merchandising cannot be reduced to **numbers** as it is an art. A good merchandiser is willing to take risks first and...

... for slow-movers often brings the same customers in for the fast-moving products. Back **orders** cost **additional** money. The problem of **inventory** control and **product** mix has been aggravated by the computer. The computer forces the dealer to manage the...

**30/3,K/4 (Item 1 from file: 813)**  
DIALOG(R)File 813:PR Newswire  
(c) 1999 PR Newswire Association Inc. All rts. reserv.

0959940

SFTU003

KPMG PEAT MARWICK SELECTS ORACLE MOBILE AGENTS FOR MOBILE COMPUTING  
INTERFACE

DATE: June 11, 1996

07:58 EDT

WORD COUNT: 479

...s North American-based Mobile Computing practice recently integrated Oracle Mobile Agents into two value **added** software products, **Order** Mate and Sales Mate. Order Mate and Sales Mate are two sets of software building...

...goods while field sales representatives use Sales Mate to access customer databases; view contact information, **product catalogs**, **product** descriptions and item **numbers**; and place orders.

"Oracle Mobile Agents is a highly comprehensive product in its transaction management.

35/3,K/1 (Item 1 from file: 15)  
DIALOG(R)File 15:ABI/INFORM(R)  
(c) 2000 Bell & Howell. All rts. reserv.

01014448 96-63841

**Automated systems and reliability**

Beheshti, Hooshang M; Worley, Joel K

Industrial Management & Data Systems v95n1 PP: 5-9 1995

ISSN: 0263-5577 JRNL CODE: IDS

WORD COUNT: 3763

...TEXT: We weren't sure where the orders would go, whether the system was breaking the **orders** down into their component **parts** properly, and whether it was **scheduling inventory ordering and production**", said Austin Mayer, Sun's director of investor relations. Ironically, this happened despite a three...

35/3,K/2 (Item 2 from file: 15)

DIALOG(R)File 15:ABI/INFORM(R)

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00857064 95-06456

**A small manufacturer adds JIT techniques to MRP**

Chin, Louis; Rafuse, Bonnie A

Production & Inventory Management Journal v34n4 PP: 18-21 Fourth Quarter 1993

ISSN: 0897-8336 JRNL CODE: PIM

WORD COUNT: 2129

...TEXT: offerings to approximately 50 product families. Manufacturing occurs in batches based on customer order quantities. **Order** diversity created an inventory of over 10,000 active **parts**. To **manage** these **parts**, **manufacturing** computerized its inventory control system.

In 1982, two central storerooms (electro-mechanical and electronic) contained...

35/3,K/3 (Item 3 from file: 15)

DIALOG(R)File 15:ABI/INFORM(R)

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00851731 95-01123

**Merger made easy with well-planned IT system**

MacLeod, Marcia

Purchasing & Supply Management Logistics Supplement PP: 22-24 Mar 1994

ISSN: 0309-7242 JRNL CODE: PSU

WORD COUNT: 1782

...ABSTRACT: to an extremely well-planned and sophisticated information technology (IT) system. Acco's new master **production scheduling** (MPS) system, the first **part** of the installation to go live, streamlined sales forecasts, **orders**, and stock holdings to provide a constantly up-to-date **list** of **production** schedules. Without it, rationalization of the 2 distribution systems would not have been possible. With...

...TEXT: enabled easier integration between related applications and led to increased productivity.

Acco's new Master **Production Scheduling** (MPS) system, the first **part** of the installation to go live, streamlined sales forecasts, **orders** and stock holdings to provide a constantly up-to-date **list** of **production** schedules. Without it, rationalisation of the two distribution systems would not have been possible.

'Better...

35/3,K/4 (Item 4 from file: 15)  
DIALOG(R)File 15:ABI/INFORM(R)  
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00783366 94-32758

**A microeconomic production assessment of the business value of management information systems: The case of inventory control**

Mukhopadhyay, Tridas; Cooper, Randolph B

Journal of Management Information Systems: JMIS v10n1 PP: 33-55 Summer 1993

ISSN: 0742-1222 JRNL CODE: JMI

WORD COUNT: 7618

...TEXT: managerial decisions into organizational goal attainment.

The article is organized as follows. The next two **sections** present a **production** model of **managerial** decision making and operationalize it in the inventory **ordering** context. The appropriateness of this model is then examined both analytically and via data from...

35/3,K/5 (Item 5 from file: 15)  
DIALOG(R)File 15:ABI/INFORM(R)  
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00716577 93-65798

**Computer "downsizing" means PC empowerment**

Davis, Dwight

Manufacturing Systems v11n5 PP: 64-66 May 1993

ISSN: 0748-948X JRNL CODE: MFS

WORD COUNT: 1107

...TEXT: make-to-order or repetitive processes, the company continues to evolve toward Just-in-Time **manufacturing** to streamline **production** and keep **inventories** lean. **Part** of that strategy calls for centralized **management** of the **manufacturing**, distribution and financial functions. We want to take **orders** centrally, send them to the appropriate factories for product manufacture, and ship them, all within...

35/3,K/6 (Item 6 from file: 15)  
DIALOG(R)File 15:ABI/INFORM(R)  
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00662939 93-12160

**Order-Launching and Delivery Sequencing for an Automotive Manufacturer**

Hahn, Chan K.; Watts, Charles A.; Kim, Ki Joo

Production & Inventory Management Journal v32n1 PP: 49-53 First Quarter 1991

ISSN: 0897-8336 JRNL CODE: PIM

...ABSTRACT: and delivery sequencing system is to receive the necessary materials and parts to ensure uninterrupted **production** operations with minimum **inventories** and costs. The design of the new **order** -launching system at Hyundai Motor Co., an automotive manufacturer in the Republic of Korea, brings these elements closer to the ideal state of stockless operations by synchronizing the materials and **parts** -**ordering** activities with **production** **schedules**. Under the new system, the **order** -launching and delivery activities are synchronized with the most up-to-date master production schedules...

35/3,K/7 (Item 7 from file: 15)  
DIALOG(R)File 15:ABI/INFORM(R)  
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00641195 92-56135

**Manufacturing: Making It Just In Time**

Jacobs, Jon

International Business v5n10 PP: 52-57 Oct 1992

ISSN: 1054-1748 JRNL CODE: NAI

WORD COUNT: 2732

...ABSTRACT: companies are using just-in-time (JIT) manufacturing techniques pioneered by Japanese automakers to slash **inventory** costs, improve **product** quality, and fulfill customers' **orders** faster. A 1991 A. T. Kearney survey of 308 mostly midsize business units found that...

35/3,K/8 (Item 8 from file: 15)

DIALOG(R)File 15:ABI/INFORM(R)

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00597231 92-12404

**Streamline Manufacturing**

Jasany, Leslie C.

Controls & Systems v39n2 PP: 38-39 Feb 1992

ISSN: 0896-6052 JRNL CODE: PDE

WORD COUNT: 1588

...TEXT: and provide up-to-the-minute access and reporting on PCB status--what parts were **ordered**, what was tested, and what **parts** were available--so they could accurately forecast **manufacturing scheduling** and deliverables. According to Koclanes, mission-critical processes such as inventory control, tracking product testing...

35/3,K/9 (Item 9 from file: 15)

DIALOG(R)File 15:ABI/INFORM(R)

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00485852 90-11609

**Quanex Finds Rewards in High Risk Steelmaking**

McManus, George J.

Iron Age v6n1 PP: 41-42 Jan 1990

ISSN: 0893-9616 JRNL CODE: IAM

...ABSTRACT: to fill orders. MacSteel plants provide fast service without carrying a large amount of finished **inventory**. The **production** is covered by **orders**, and nothing is produced for stock.

35/3,K/10 (Item 10 from file: 15)

DIALOG(R)File 15:ABI/INFORM(R)

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00297307 85-37741

**Multiproduct Production Scheduling at Owens-Corning Fiberglas**

Oliff, Michael D.; Burch, E. Earl

Interfaces v15n5 PP: 25-34 Sep/Oct 1985

ISSN: 0092-2102 JRNL CODE: TIM

...ABSTRACT: small portion of these products generate over 80% of annual mat product demand; the remaining **portion** is **manufactured** according to special **orders**. The **production scheduling** model produces an aggregate production **plan**, product-level production plans, and job-sequencing plans. The model incorporates a production switching rule...

35/3,K/11 (Item 11 from file: 15)

DIALOG(R)File 15:ABI/INFORM(R)

(c) 2000 Bell & Howell. All rts. reserv.

00150318 81-20195

**Production/Inventory Systems with a Stochastic Production Rate Under a Continuous Review Policy**

Gavish, Bezalel; Graves, Stephen C.

Computers & Operations Research v8n3 PP: 169-183 1981

ISSN: 0305-0548 JRNL CODE: CRO

...ABSTRACT: Most inventory theory deals with the questions of when to reorder and how much to **order**. The **production /inventory** system differs in that individual replenishment may occur continuously throughout the production run. The control...

**35/3,K/12 (Item 12 from file: 15)**

DIALOG(R)File 15:ABI/INFORM(R)

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00023518 75-01869

**ON-LINE SYSTEM WEAVES PRODUCTION PATTERN FOR SEWING MACHINE MAKER**

DATA COMMUNICATIONS USER PP: 47-48 JAN 1975

ISSN: 0045-9682 JRNL CODE: DCU

...ABSTRACT: CHICAGO, AN IBM 370/145 CPU IS UTILIZED LARGELY FOR MANUFACTURING SUPPORT ACTIVITIES. THESE INCLUDE **INVENTORY** CONTROL, **PRODUCTION** PLANNING, **SCHEDULING**, ROUTING AND CONTROL, REPLACEMENT **PARTS** **ORDER** ENTRY, FORECASTING AND MATERIAL REQUIREMENTS PLANNING. INQUIRIES TO THE CENTRAL DATA BASE ARE HANDLED BY...



02874949

**TTC Licenses Orckit ADSL Technology for Interoperable ADSL Testers**

BUSINESS WIRE

September 21, 1998

JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 939

...agreement allows Orckit's ADSL technology to be included in the TTC ADSL test systems **product** line. First **products** of this agreement will be handheld testers to support the deployment and turn-up of ADSL services. TTC's handheld **products** division, TPI, is developing the instruments. These TTC **products** are battery-powered with a portable, weather resistant plastic housing. The new ADSL testers will be compatible with the joint Orckit and Fujitsu **Network** Communications SPEEDPORT DSLAM system for North America, and with Orckit's FastInternet DSLAM system sold...

... SPEEDPORT and FastInternet systems are ADSL-based DSLAMs offered with ATM, IP and frame relay **functionality**. ADSL modem performance depends on the condition and length of the copper line on which it is deployed. TTC's new handheld testers, which are **ready** for **order** acceptance, can reduce telco costs by enabling a technician to quickly and efficiently check key ...

... provides regarding distance, noise and other factors that can potentially impact service such as the **number** of load coils on a line. "We are extremely excited about this relationship and the...

... deployment costs through the availability of efficient turn-up service tools and systems. TTC's **products** will allow service providers to quickly, accurately and efficiently turn up ADSL service. This is...

... DSLAM systems," said Nigel Cole, vice president of Orckit's business development. "This initiative is **part** of the company's overall effort to license our ADSL technology to leading vendors in complementary areas in **order** to facilitate the deployment of the DMT ADSL solutions." The new handheld **product** offering, the TPI 350, is TTC's entry-level tester for ADSL. This **product** will include a lid option that supports the ability to detect load coils. A maximum...

... the Local Loop. Orckit possesses both core silicon expertise and a wide range of DSL **products**, including its FastInternet DSLAM System with ADSL, and its CopperTrunk HDSL and VDSL **product** lines. Orckit has key strategic alliances with several leading semiconductor companies and telecom equipment providers...

... com. TTC, a Dynatech company (OTC-BB: DYNA), is a global leader in the design, **manufacture** and marketing of test **products**, test systems, software and support services that enable communications providers and users to more efficiently install and maintain successful **networks**. Known for its T-BERD and FIREBERD analyzers and CENTEST centralized test systems, TTC provides...

...at 1-800-638-2049, or 301/353-1550. TTC, T-BERD and FIREBERD are **registered** trademarks of TTC. CENTEST is a trademark of TTC. SPEEDPORT is a trademark of Fujitsu **Network** Communications Inc. FastInternet is a trademark of Orckit Communications Ltd. CopperTrunk is a **registered** trademark of Orckit Communications Ltd. Glossary: ADSL - asymmetric digital subscriber line; ATM - asynchronous transfer mode...

... subscriber line access multiplexer; HDSL - high bit-rate digital subscriber line; ISDN - integrated services digital **network**; LCD - liquid crystal display; LED - light emitting diode; POTS - plain old telephone service; SDH synchronous digital **hierarchy**; SONET - synchronous optical

**network** ; TMS - transmission impairment measurement set, VDSL - very high bit-rate digital subscriber line. Certain matters discussed in this news release are **forward** -looking statements that involve a **number** of risks and uncertainties including, but not limited to, risks in **product** development **plans** and **schedules** , rapid technological change, changes and delays in **product** approval and introduction, customer acceptance of new **products** , the impact of competitive **products** and pricing, market acceptance, the lengthy sales cycle, proprietary rights of the Company and its competitors, risk of operations in Israel, government regulation, dependence on third parties to **manufacture products** , general economic conditions and other risk factors detailed in the Company's United States Securities...

24/3,K/1 (Item 1 from file: 9)  
DIALOG(R) File 9:Business & Industry(R)  
(c) 2000 Resp. DB Svcs. All rts. reserv.

02066770 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**PSDI Plans Web-Based E-Comm, Content**

(PSDI will add content as well as Internet-based e-comm services to enterprise-wide maintenance management system; PSDI also rolls out major upgrade of its Maximo with enhancements in job safety analysis & work management)

Newsbytes News Network, p N/A

February 18, 1998

DOCUMENT TYPE: Journal ISSN: 0983-1592 (United States)

LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 523

**ABSTRACT:**

After buying Applied Resource Management Group (A.R.M. Group) last week, PSDI (Bedford, MA) is now gearing up to add content as well as Internet-based e-comm services to its enterprise-wide maintenance management system. PSDI Chief Executive Officer (CEO) Chip Drapeau asserted that PSDI is currently a \$197...

...Research Corp. to grow to \$1 billion by the year 2000. The CEO said that **products** in this booming market provide much the same kind of **functionality** as enterprise resource planning (ERP) systems from vendors like SAP and Peoplesoft, except that the **products** are specifically targeted at the **components** used in manufacturing equipment. The A.R.M. Group's M/Net **product** provides an e-comm **network** for **manufacturers** and distributors, helping them to track where **products** are in the supply chain, as well as **product** demand and **inventory** levels, according to Drapeau. Also in 2/98, PSDI rolled out a major upgrade of its Maximo **product**, with new enhancements in the areas of preventive maintenance **hierarchies**, materials **management**, inspection **management**, job safety analysis, work **management**, and **scheduling**, Newsbytes was told. Maximo 4.0 is built around an "open architecture" with Java **components** and business process workflow, according to the CEO. Other new capabilities include: "enhanced integration links...

...Oracle; as well as new safety features, such as the ability to produce "comprehensive safety **plans**." PSDI already has about 4,500 to 5,000 customers, including Allen-Bradley and Rockwell Automation, according to Drapeau. Drapeau said PSDI now **plans** to integrate the e-comm **functionality** of M/Net with its own Maximo **product**.

24/3,K/2 (Item 1 from file: 15)  
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01803625 04-54616

**Buying strategies**

Dilger, Karen Abramic

Manufacturing Systems v16n11 PP: 68-78 Nov 1998

ISSN: 0748-948X JRNL CODE: MFS

WORD COUNT: 3188

...TEXT: N.J., to integrate its information services into SupplyBase's network of on-line supplier **directories**. "Users can get objective, accurate information about private companies performance, profits, and revenues from the Dun & Bradstreet catalog," says Golec. "We combined some of Dun's data with our **directory**, and about 80 percent of the suppliers in our database will be found in Dun's **directory**." Special reports and additional company information can be purchased on-line by users. MRO buying...

... and software, travel and entertainment expenses, facilities, and

services. Typically, procurement of these resources is **managed** through a paper-based process. However, for many companies, migrating to an Internet-based MRO...

... risk endeavor. At Cisco Systems, San Jose, Calif., almost 40 percent of its employees 5,000 **managers**, procurement personnel, financial analysts, and others use the operating resource **management** system (ORMS) from Ariba. The system includes search capability and workflow processes in an automated Web-based application that replaced a manual system. It has allowed the **manufacturer** of Internet networking equipment to reduce cycle time, eliminate data entry into its ERP procurement Carolyn DePalmo, business process design **manager** for Cisco. "We **plan** to cut that down considerably and expect to have those results soon." The system includes...

... has a complex set of about 30 rules that dictate how requisitions flow through the **management** chain. If a **part** is standard and already priced, the requisition goes **directly** to the supplier. Nonstandard **parts** are routed to our purchasing module so a **manager** can review them." **Managers** receive e-mail alerts to signal a requisition is awaiting approval. The ORMS system is enhanced by using an electronic **parts** catalog compiled by Ariba and Cisco developers from 14 preferred suppliers. Since Cisco has a **direct** order arrangement with its high-volume suppliers, the company wanted to provide additional information to...

... one repository, and includes a search engine that allows users to navigate through a standard **tree structure**," says DePalmo. "For example, they can drill down from furniture to desks, to specific sizes or features, or they can do a general search." The ORMS reporting **function** gives **managers** more control over MRO operations and business process analysis. "If procurement's job is to...

... duties instead of pushing paper and running MRO transactions," says C.J. Glynn, an Ariba **manager**. "Errors are reduced during the approval process and duplication of effort is eliminated. The system also assists end users by giving them order status information. **Managers** don't have to waste time answering calls about when the order will be delivered..."

24/3,K/3 (Item 2 from file: 15)  
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00817073 94-66465

**IT-enabled business transformation: From automation to business scope redefinition**

Venkatraman, N

Sloan Management Review v35n2 PP: 73-87 Winter 1994

ISSN: 0019-848X JRNL CODE: SMZ

WORD COUNT: 8749

...TEXT: relationships within the extended business network?"

Strategy concepts, such as economies of scale (within the **hierarchy**), **product** -line extension through vertical integration, and mergers and acquisitions that led to increased emphasis on...

... being replaced by newer concepts such as joint ventures, alliances and partnerships, and virtual business **networks** with a marked emphasis toward a more flexible and fluid corporate scope.(24) I focus...

... on the specific enabling role of information technology in this movement. The redesign of business **networks** (level four -- from transaction processing to knowledge **networks** -- has **direct** implications for the logic of business scope and the consequent redistribution of revenue and profit...

... so on), some tasks may be restructured optimally across organizational boundaries (joint design or collaborative **manufacturing**), and some tasks

expanded (value-added services that are rooted in IT **functionality** ). During the past decade, there have been some illustrations of IT-enabled redefinition of business...

...traditional marketing support role to derive a significant proportion of its total revenue from SABRE-related fees: by one estimate, the profit level from SABRE is higher than from flying airplanes...

... have expanded their business scope to include refund-anticipation loans and other financial and tax-related services.(27) Baxter has evolved from the distribution of hospital **products** to **managing inventory** within hospitals on a stockless basis.(28) Federal Express has leveraged its reliable IT platform to handle customer service processes for noncompetitors as well as to **manage** time-sensitive **inventory** of spare **parts** for companies like IBM and Boeing.(29)

Beyond these examples, which highlight expansion of business...

24/3,K/4 (Item 1 from file: 20)  
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02982729

**TTC Debuts the TTC 750E Portable ATM Tester, a Single Integrated Solution**  
BUSINESS WIRE  
October 01, 1998  
JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT  
WORD COUNT: 476

GERMANTOWN, Md.--(BUSINESS WIRE)--Oct. 1, 1998-- Service Providers, **Manufacturers** , End Users Get Full ATM Testing for Line Speeds of 25 Mbps - 155 Mbps TTC...

... availability of the TTC 750E ATM Tester, a complete ATM test instrument in a portable **unit** . The rugged tester is designed to meet the needs of service providers, end users and equipment **manufacturers** charged with designing, provisioning and troubleshooting ATM **networks** and equipment. The TTC 750E will be displayed at PT/ExpoComm China (TTC booth 4172) and NetWorld+INTEROP Paris (TTC booth D33). "The **functionality** afforded by the TTC 750E is unprecedented in a single integrated test set," said Bill Fandel, international **product** marketing engineer, TTC. "Providing the most comprehensive provisioning and troubleshooting capabilities available in this form, the TTC 750E supports any interface speed you need in a lightweight, battery powered **unit** ." The portable and rugged TTC 750E supports any needed line speed, from 25 Mbps through 155 Mbps, and up to six interfaces. The **unit** also provides complete layer 1 testing capability for each interface, enabling technicians to verify the...

... 800. TTC, a Dynatech company (OTC-BB:DYNA), is a global leader in the design, **manufacture** and marketing of test **products** , test systems, software and support services that enable communications providers and users to more efficiently install and maintain successful **networks** . Known for its T-BERD and FIREBERD analyzers and CENTEST centralized test systems, TTC provides...

...at 800/638-2049, or 301/353-1550. TTC, T-BERD, FIREBERD and CENTEST are **registered** trademarks of TTC. **Product** availability, price and specifications may vary in non-U.S. markets. Glossary: ATM - asynchronous transfer mode; ISDN - integrated services digital **network** ; LCD - liquid crystal display; LED - light emitting diode; SDH - synchronous digital **hierarchy** ; SONET - synchronous optical **network** . Customer and **product** - **related** inquiries should be **directed** to 800/638-2049 (US only) or 301/353-1550. Inquiries from the media and industry analysts should be **directed** to Alice Ducq (ducqa@ttc.com) at 301/353-1560, ext. 3153. CONTACT: TTC, Germantown...

24/3,K/5 (Item 2 from file: 20)  
DIALOG(R) File 20:World Reporter  
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02899450

**LSI Logic's Digital Terrestrial Demodulator Exceeds Performance Expectations In BBC Tests**

PR NEWSWIRE

September 23, 1998

JOURNAL CODE: WPRW LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 1187

...to conform to the DVB-T specification in all 2K and 8K modes tested -- including **hierarchical** modulation modes and tests in a single-frequency **network** -- in tests conducted by the VALIDATE Project. The VALIDATE (Verification And Launch of Integrated Digital...

... countries, carried out multidimensional interoperability tests in June. DVB-T modulators and demodulators from different **manufacturers**, including LSI's L64780 demodulator, were tested in 61 different DVB-T modes. The tests...

... demonstrated the interoperability of DVB-T equipment. These results are significant as they show that **network** operators can confidently mix and match DVB-T solutions from a host of **manufacturers**, thereby building a reliable infrastructure for the launch of commercial services. In addition to being...

... maximum time specified for all modes tested, which included both 2K and 8K, single frequency **network** operation, and **hierarchical** and non-**hierarchical** transmission. The BBC tests were designed to evaluate technologies available for the emerging digital terrestrial...

... With both analog and digital signals traveling in the same band within the multiple frequency **network planning**, the digital signal can become attenuated and corrupted. The demodulator must ensure that the digital...

... the early adoption of digital services. The L64780 chip performed 4dB better than the frequency **planning** assumptions for co-channel PAL interference, ensuring strong digital reception. \* Multipath performance: How well a...

...a high level of noise at the input to the demodulator. LSI's L64780 chip **functioned** successfully in this test environment. "For the digital terrestrial TV launch to be successful, companies...

... must ensure that they deliver the predicted quality and coverage." said Jean-Luc Droitcourt, marketing **director** for digital TV at LSI Logic. "The issue is not about one-chip or two...

... to the EU VALIDATE tests conducted in June this year," said Jean-Marc Guyot, marketing **manager** for LSI Logic's Digital TV division. "Both tests reflect the superior design and robustness...

... increases performance, lowers system costs and accelerates time to market. LSI Logic develops application-optimized **products** in co-operation with trend setting customers, and operates leading-edge **manufacturing** facilities to produce submicron geometry chips. The company maintains a high level of quality as...test the technology for digital terrestrial TV broadcasting and to develop mobile applications. They are **part** of the Advanced Communications Technologies and Services (ACTS) program supported by the European Commission through...

... users. 1.) The LSI Logic logo design and The System on a Chip Company are **registered** trademarks of LSI Logic Corporation. 2.) All other brand or **product** names may be trademarks or **registered** trademarks of their

respective companies. (X) Reader inquiries should be directed to 32-11-300351 within Europe./ /CONTACT: Susan Josephson of LSI Logic Europe Ltd., 44...

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02898106

**Natural MicroSystems Announces QX 2000 Series of Low-Density Boards for Fax, Voice and IP Telephony**

BUSINESS WIRE

September 23, 1998

JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 1055

NEW YORK--(BUSINESS WIRE)--Sept. 23, 1998-- "Universal Port" Enables Developers to Build Multi-Function Applications on a Single Board Today at the Computer Telephony Demo & Expo '98, Natural MicroSystems...

... multimedia applications in a single port. Unlike competitive solutions, which are limited to a single **function** per port, the QX 2000 series supports a full range of mixed media -- fax, voice and IP telephony -- on each port. This "universal port" capability enables developers to build multi- **function** applications on a single board, or to add additional **functions** to existing applications without requiring a second board. "The current competitive four-port board offerings have limited **functionality** and compete based upon price. Our initial offering is designed to compete on its high...

... and detection and call progress analysis. Apropos Technology develops and markets the leading switch and **network** independent, client/server Total Call Center **Management** (TCCM) system on the market. They selected Natural MicroSystems' QX 2000 board to develop the Apropos Version 4 enterprise call center application, which provides intelligent routing and real-time **management** of live calls, e-mail, and web interactions with the call center. "The QX 2000...

... QX Series 2000 provides full support of the H.100 bus specification as an integral **part** of MVIP's **hierarchical** switching model. It enables developers to take full advantage of MVIP's scalability benefits, and provides the framework to easily integrate open telecom buses and newer H.100 based **products** into existing applications. Developers can combine QX 2000 boards with any industry standard MVIP **product** with minimal changes to their existing applications. Because it is fully compatible with Microsoft's Telephony Application Programming Interface (TAPI), the QX 2000 **product** series enables Windows application developers to write high value telephony applications to a standard, open API. In addition, the QX 2000 is one of the first Natural MicroSystems **products** to support CTR21, a Common Technical Regulation that defines a harmonized standard for analog access to...

... European Economic Area (EEA) and Switzerland. In the past, analog standards were not harmonized; therefore, **manufacturers** were required to go to each country and test analog equipment to country unique specifications. CTR-21 simplifies this process by enabling **manufacturers** to go to one test lab and take one test for compliance for all EEA member countries enabling faster **product** delivery throughout the EEA market. About the QX 2000 Series Today, the QX 2000 Series...

... boards. They include: -- NaturalFax QX: a four-port fax board optimized for high-performance Peripheral **Component** Interconnect (PCI)-based microcomputer platforms. By combining on- board call control, voice processing and fax...

... Pricing, Availability and Systems Requirements The QX 2000/100 board will be available for a **list** price of \$995. The four-port NaturalFax/QX fax board is priced at \$1595. Both boards will be in early customer release

in October. A third **product** in the series, the QX 2000/200, a four-port board designed especially for IP telephony applications is expected in the first quarter of 1999. All QX 2000 **products** will be available for worldwide deployment at time of **production** release. Pricing and availability for additional QX Series 2000 configurations will be announced later in...

... value telecommunications solutions. The Company's state-of-the-art technology enables a growing international **network** of OEMs, VARs, systems integrators and service providers to reduce time to market, leverage development resources, and offer truly global communications **products**. Natural MicroSystems **products** are installed in more than 40 countries worldwide. Founded in 1983, Natural MicroSystems developed Watson, the first **product** to utilize digital signal processor (DSP) technology in PC-based telephony **products**, and has been a leader in the creation of MVIP(tm) and H.100, the industry standards for interoperability in PC-based telephony **products**. More information on the company is available at <http://www.nmss.com>. Natural MicroSystems, Open...

...and QX 2000 Series are trademarks of Natural MicroSystems Corp. Alliance Generation and Watson are **registered** trademarks of Natural MicroSystems Corp. CompactPCI is a **registered** trademark of Ziatech Corporation. MVIP is a trademark of GO-MVIP, Inc. CONTACT: Natural MicroSystems...

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02890333

**Announcing The TTC 2230: Tester Unites Physical Layer and Services Testing**  
BUSINESS WIRE

September 22, 1998

JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 570

... Sept. 22, 1998-- Expert 2M Instrument Offers WAN Transmission Analysis and Troubleshooting In A Single **Unit** TTC Tuesday announced the next generation of field testing with the TTC 2230 communications analyzer ...

... the TTC 2230, we offer 2M service providers investment protection as well as second-generation **functionality**," said Doug Smith, **product** line **manager**, TTC. "Based on the TTC 2000 Test Pad platform, the TTC 2230 sets a new...

... depth understanding of the underlying issues. The TTC 2230 accomplishes a variety of tests and **functions** required when provisioning new service and maintaining or troubleshooting existing lines. TTC understands field testing...

... 000. TTC, a Dynatech company (OTC-BB: DYNA), is a global leader in the design, **manufacture** and marketing of test **products**, test systems, software and support services that enable communications providers and users to more efficiently install and maintain successful **networks**. Known for its T-BERD and FIREBERD analyzers and CENTEST centralized test systems, TTC provides...

...Internet at [www.ttc.com](http://www.ttc.com) or 301/353-1550. TTC, T-BERD and FIREBERD are **registered** trademarks of TTC. CENTEST and Test Pad are trademarks of TTC. Glossary: ATM - asynchronous transfer mode; BERT - bit error rate testing; CAS - channel associated signaling; ISDN - integrated services digital **network**; LCD - liquid crystal display; PRI - primary rate interface; SDH - synchronous digital **hierarchy**; SONET - synchronous optical **network**; VGA - variable graphics array. Customer and **product**-related inquiries should be **directed** to 301/353-1550. Inquiries from the media and industry analysts should be **directed** to Alice Ducq ([ducqa@ttc.com](mailto:ducqa@ttc.com)) at 301/353-1560 ext. 3153. CONTACT: TTC, Germantown...



24/3,K/8 (Item 5 from file: 20)  
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02874949

**TTC Licenses Orckit ADSL Technology for Interoperable ADSL Testers**  
BUSINESS WIRE  
September 21, 1998  
JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT  
WORD COUNT: 939

...agreement allows Orckit's ADSL technology to be included in the TTC ADSL test systems **product** line. First **products** of this agreement will be handheld testers to support the deployment and turn-up of ADSL services. TTC's handheld **products** division, TPI, is developing the instruments. These TTC **products** are battery-powered with a portable, weather resistant plastic housing. The new ADSL testers will be compatible with the joint Orckit and Fujitsu **Network** Communications SPEEDPORT DSLAM system for North America, and with Orckit's FastInternet DSLAM system sold...

... SPEEDPORT and FastInternet systems are ADSL-based DSLAMs offered with ATM, IP and frame relay **functionality**. ADSL modem performance depends on the condition and length of the copper line on which...

... deployment costs through the availability of efficient turn-up service tools and systems. TTC's **products** will allow service providers to quickly, accurately and efficiently turn up ADSL service. This is...

... DSLAM systems," said Nigel Cole, vice president of Orckit's business development. "This initiative is **part** of the company's overall effort to license our ADSL technology to leading vendors in...

... areas in order to facilitate the deployment of the DMT ADSL solutions." The new handheld **product** offering, the TPI 350, is TTC's entry-level tester for ADSL. This **product** will include a lid option that supports the ability to detect load coils. A maximum...

... the Local Loop. Orckit possesses both core silicon expertise and a wide range of DSL **products**, including its FastInternet DSLAM System with ADSL, and its CopperTrunk HDSL and VDSL **product** lines. Orckit has key strategic alliances with several leading semiconductor companies and telecom equipment providers...

... com. TTC, a Dynatech company (OTC-BB: DYNA), is a global leader in the design, **manufacture** and marketing of test **products**, test systems, software and support services that enable communications providers and users to more efficiently install and maintain successful **networks**. Known for its T-BERD and FIREBERD analyzers and CENTEST centralized test systems, TTC provides...

...at 1-800-638-2049, or 301/353-1550. TTC, T-BERD and FIREBERD are **registered** trademarks of TTC. CENTEST is a trademark of TTC. SPEEDPORT is a trademark of Fujitsu **Network** Communications Inc. FastInternet is a trademark of Orckit Communications Ltd. CopperTrunk is a **registered** trademark of Orckit Communications Ltd. Glossary: ADSL - asymmetric digital subscriber line; ATM - asynchronous transfer mode...

... subscriber line access multiplexer; HDSL - high bit-rate digital subscriber line; ISDN - integrated services digital **network**; LCD - liquid crystal display; LED - light emitting diode; POTS - plain old telephone service; SDH synchronous digital **hierarchy**; SONET - synchronous optical **network**; TMS - transmission impairment measurement set; VDSL - very high bit-rate digital subscriber line. Certain matters...

... that involve a number of risks and uncertainties including, but not limited to, risks in **product** development **plans** and **schedules**, rapid

technological change, changes and delays in **product** approval and introduction, customer acceptance of new **products**, the impact of competitive **products** and pricing, market acceptance, the lengthy sales cycle, proprietary rights of the Company and its competitors, risk of operations in Israel, government regulation, dependence on third parties to **manufacture products**, general economic conditions and other risk factors detailed in the Company's United States Securities...

24/3,K/9 (Item 6 from file: 20)  
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02839649

**FRx Software Corp. Partners With Lawson Software; FRx's Participation in GAIN Program Enhances Financial Reporting Capabilities Available to Lawson Customers**

BUSINESS WIRE

September 17, 1998

JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 792

... their partnership with Lawson Software, The Global Solutions Company, through the Lawson Global Alliance Integrated **Network** (GAIN). As a result of the partnership, Lawson customers can further expand and enhance their...

... development of complex reports with flexible, visual spreadsheet-like design techniques. Since Visual Financial Reporting **directly** accesses Lawson's general ledger information without the use of a data warehouse, financial reports include the latest transactions, giving business **managers** a current snapshot of business performance. FRx also integrates with non-GL data, such as budget or statistical data from spreadsheets, to create highly informative financial reports. FRx's unique **tree -structure** reporting **hierarchy** enables financial users to keep pace with changing organizations and easily lends itself to in-depth analysis, allowing users to view financial performance across multiple cost centers, business **units** and companies, regardless of data sources or structure. Reports can be distributed electronically to users throughout the company who can then utilize FRx's drill down **functionality** to access account or transactional-level detail. "FRx's Visual Financial Reporting application delivers the robust **functionality** financial **managers** need to meet their financial reporting needs," said Mark Galloway, Vice President of Strategic **Planning** for Lawson Software. "FRx's partnership in the GAIN program allows Lawson to enhance and...

... and headquartered in Denver, FRx Software Corporation produces advanced Visual Financial Reporting software that interfaces **directly** with more than 30 leading client/server financial systems and is used in over 65...

... FRx applications feature the automatic creation of complex financial reports with rollups through multiple reporting **hierarchies**; electronic distribution with drill-down from summary level financial information into the underlying transaction level...

... or printing; exception and multi-currency reporting; and the FRx Report Server for high-speed **production** and distribution of financial reports. FRx's reporting trees (**hierarchies**) provide effective dating capability to **manage** organizational restructuring and allow financial users to easily consolidate multiple cost centers, business **units** and companies, even when the data resides in different accounting systems or have different charts...

... by Accounting Today as one of the Top 100 Software Companies for 1998. FRx Software **products** have been designed by and for CPAs and financial professionals to build and maintain complex financial reports that support Generally Accepted Accounting Principles (GAAP). For information about FRx

Software's **product** offerings call 1-800-379-8733 or visit them on the Web at [www.frxsoft...](http://www.frxsoft...)

... of self-evident, role-based Web solutions for financials, human resources, procurement and supply chain **management** . With more than 2,500 mid- to large-sized corporate customers, and sales of its...

... The September 1998 issue of Red Herring names Lawson "the strongest private ERP company" and **lists** Lawson among the world's top 50 private companies. The Information Technology Association of America...

... <http://www.lawson.com> or by calling (800)477-1357. Lawson and LAWSON INSIGHT are **registered** trademarks of Lawson Software. FRx, the FRx logo and Visual Financial Reporting are trademarks of...

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01538945 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**Breece Hill Unveils Industry's First Windows NT-Based DLT Libraries At NetWorld+Interop '98**  
BUSINESS WIRE  
May 04, 1998 13:44  
JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT  
WORD COUNT: 969

... processors running Windows NT 4.0 that make the power of Windows NT-based data **management** as easy as point and click. All library operations running under Windows NT can be controlled by touch-screen commands on the LCD panel. The WinNT capability supports library **management functions** while operating as a complement to any attached host system. Breece Hill's Saguaro is...

... and Q210 -- with 12, 9 or 6 DLT drives, respectively. Depending on the model, the **unit** provides a range of 5 TB to 15 TB of data storage capacity per library. Saguaro incorporates CartMove(a) Cartridge Migration Technology, allowing up to eight Saguaro **units** to connect as a single volume library storing up to 118 TB of data. Saguaro...

... including simultaneous support for SCSI connection to a host server -- or even multiple hosts -- and **network** -attached storage requirements. Another breakthrough in **network data management** comes with a new software release that allows Saguaro libraries to be **managed** as a **network** device via Simple **Network Management** Protocol (SNMP). Breece Hill leveraged the embedded intelligent **functionality** to enable the Saguaro library to appear as a **network** device to SNMP enterprise applications. Breece Hill created an enterprise extension to the standard SNMP **Management** Information Base (MIB) that enables the Saguaro library to operate with major **network management** applications that support SNMP. These **network management** applications can query a Saguaro library and receive the full range of SNMP data in...

... including notification when problems occur in the library. In addition to supporting all standard SNMP **functions** , Breece Hill's SNMP implementation includes features to generate a variety of reports and information far beyond the standard SNMP **functionality** . The enhanced MIB that is now standard with every Saguaro library enables **network managers** to access a full range of library status information via SNMP, including which media are...

... drive, tape drive operational information, and data about library temperature and voltages. Complementing the SNMP **functionality** , all Saguaro libraries include standard e-mail notification services using the standard Simple Mail Transport...

... other languages besides English. Breece Hill will also be running two other innovative DLT library **products** at NetWorld+Interop '98: the

company's Q2.15 and Q47. The Q2.15 stores...

... library storage module. The modularity of the Q2.15 allows users to easily stack the **units** to expand drive and storage capacity as storage demands increase. Available in rackmount, desktop or...

... DLT technology and patented robotics systems designed to meet the demanding and changing requirements of **network** storage applications, such as **Hierarchical Storage Management** (HSM). This new library features one or two DLT 4000 or 7000 drives, an integrated...

... storage, archival or system backup. It is also suitable for "near on-line" storage and **cataloged** retrieval of large files (i.e., image files) and large sequential data sets. The Q47...

... storage systems through system integrators, value added resellers, distributors and OEMs worldwide. Breece Hill develops, **manufactures** and markets tape-library systems that serve the rapidly growing mid-range and client/server...

... technology design and development for more than 10 years. The focus of the company's **product** family is on reliability, high data availability, low cost of ownership and ease of integration. For additional information on this announcement, or to find out more about Breece Hill **products**, contact Brian Ramos, at 303/449-2673; e-mail: BRamos@BreeceHill.com; or check the...

24/3,K/11 (Item 8 from file: 20)  
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01434499 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**Steelcase Launches Web-Based Training Administration System for Worldwide Employee and Dealer Network**  
BUSINESS WIRE  
April 21, 1998 10:56  
JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT  
WORD COUNT: 632

(USE FORMAT 7 OR 9 FOR FULLTEXT)

Steelcase, the world's largest **manufacturer** of office furniture announced today the launch of an online training system that will make...

... way to develop our people and help them serve our customers better," said Brian Heath, **Manager** of Steelcase's Learning and Development Center. "The new Learning and Development Site will save...

... can log on to the Internet or Steelcase's own intranet and access a course **catalog**, enroll for courses, take tests, review transcripts, and read news and other information about hot...

... at Steelcase. Employees will also be able to take courses online, when Steelcase adds this **functionality** to the site later this year. "The Web is the perfect medium for the delivery...

...Steelcase site and specializes in Web-based solutions for business. "The Learning & Development Site links **directly** from the Steelcase dealer site and the Steelcase intranet; it is readily available to any...

... streamline the revision of course information, reduce the need and cost associated with printing course **catalogs**, **schedule** courses at multiple times and locations, track changes in student enrollment, generate wait **lists**, and notify students, instructors and course administrators of any changes via email. Prior to the...

...different groups within Steelcase's Learning and Development Center were

charged with maintaining all course-related information. Each group had its own database and set of processes. "We believe that consolidating...

... staff up significantly within the department to support the administrative requirements SAP implementation and several **product** rollouts would entail," said Heath. "We instead chose, with the help of Strategic Interactive, to...

... the introduction of Steelcase's Drive Seating chair line. The site's user-friendly testing **function** replaced a more expensive touch tone telephone system that had been in use for a...

... permit Learning Center staff, course coordinators, instructors, dealers and students to access and update different **segments** of the database according to a strictly enforced security **hierarchy**. About Steelcase

Steelcase is the world's leading designer and manufacturer of office furniture, with...

24/3,K/12 (Item 9 from file: 20)

DIALOG(R)File 20:World Reporter

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01398794 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**TTC Introduces the New TPI 507A Analog Services Analyzer**

BUSINESS WIRE

April 16, 1998 11:15

JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 432

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... announced the availability of the TPI 507A Analog Services Analyzer. The hand-held and lightweight **unit** (just over four pounds) enables service providers to define a wide range of problems in...

... troubleshooting. This feature-rich instrument is ideal for service providers and is available immediately. "This **product** really satisfies the customer's need for a multi-purpose, portable trouble resolution tool that addresses analog services," said Jerry Smith, TPI **product** marketing **manager**, TTC. "With the TPI 507A, service providers now have a full-**function** analog tester capable of characterizing problems in detail prior to dispatching a technician to the...

... available for a base price of \$2,695. The TPI division of TTC designs and **manufacturers** portable services test equipment for ISDN, frame relay, ATM and DDS technologies. A focus on...

... and extensive services testing features has positioned TPI as a leader in portable test equipment **manufacturing** and design. TTC is a global leader in the design, **manufacture** and marketing of test **products**, test systems, software and support services that enable communications providers and users to more efficiently install and maintain successful **networks**. Known for its T-BERD, FIREBERD and INTERCEPTOR analyzers and CENTEST centralized test systems, TTC...

... 638-2049 (US only), or 301/353-1550. INTERCEPTOR, T-BERD, FIREBERD and TTC are **registered** trademarks of TTC. CENTEST is a trademark of TTC.

**Product** availability, price and specifications may vary in non-US markets. Glossary: ATM -asynchronous transfer mode; DDS - digital data system; DSL - digital subscriber line; ISDN - integrated services digital **network**; SDH synchronous digital **hierarchy**; SONET - synchronous optical **network**. Customer and **product** -related inquiries should be **directed** to 800/638-2049 (US only) or 301/353-1550. Inquiries from the media and industry analysts should be **directed** to Alice Ducq (ducqa@ttc.com) at 301/353-1560, ext. 3153. PHOTOGRAPHY IS AVAILABLE...

28/3,K/1 (Item 1 from file: 9)  
DIALOG(R) File 9:Business & Industry(R)  
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01997390 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**THE CHAIN GANG**

**(Sales of supply chain management software are booming as manufacturers scramble to gain a competitive edge)**

Computer Business Review, v 6, n 8, p N/A

August 01, 1997

DOCUMENT TYPE: Journal ISSN: 0161-7389 (United Kingdom)

LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 2877

(USE FORMAT 7 OR 9 FOR FULLTEXT)

**TEXT:**

...in one of the hottest software markets around - supply chain management. Sales of supply chain **management** software are growing exponentially. From a virtual standing **start** in the early 1990s, the market grew to an estimated \$350 million in 1996, according...

...managing business to a customer-oriented environment where the firm and its trading partners can **simultaneously** communicate on the **changing** dynamics of the supply chain," she says. It is not a simple challenge - the increasing...

...so as to fulfill an order. With modern supply chain software, users can input an **order** into the **planning** system and find out almost instantly if the company can **manufacture** and **deliver** a **product** in time. This is achieved through a variety of complex technologies including optimisation algorithms and...

...t move forward aggressively on supply chain initiatives will be deserted by customers seeking faster **delivery**, mass customisation and better service." BOOM TIME As a result, **manufacturing** companies are clamouring for supply chain management software, and analysts are in no doubt that...

...business application software - such as SAP, Baan, Oracle and PeopleSoft - who are working feverishly to **deliver** their own **products**. Baan recently released a supply chain module called Baan Synchronisation, SAP has promised enhancements to...the logical way forward for supply chain software. "If you're setting up a new **order management** system, you want to be able to not only quote customer delivery dates, maybe you...

28/3,K/2 (Item 1 from file: 20)  
DIALOG(R) File 20:World Reporter  
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09315693

**Foreign Investments Advisory Services (FIAS) report on facilities for investors**

ROMANIAN BUSINESS JOURNAL

January 03, 2000

JOURNAL CODE: WRBJ LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 4735

... experts also share this opinion: international experience suggests that facilities are not profitable, calculated in **additional** investments on the **unit** of lost income. They suffer from their weakness by failing to treat equally all investments...managed system, which should be stable and which should let them make their own business **plans**. **Added** value tax IX. During the last two years, in **order** to offset the **management** weaknesses of the fiscal system, and, in general, in **order** to attract some **direct** foreign investments, VAT concessions have estranged the Romanian system from the European one, which initially...government to

assess our recommendations through the prism of its knowledge, which is much more **updated** (and fit to **current** condition) than ours. The MF staff could recalculate our estimations on the change of incomes or...be completed with some elements, if the big fish has to be caught, by creating **additional** incentives **related** to the respective project. In case of privatizations or sales of some assets of the...

**28/3,K/3 (Item 2 from file: 20)**  
DIALOG(R)File 20:World Reporter  
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03028973

**Insight Partners With InterWorld And Cambridge Technology Partners To Power Its Second Generation Online Computer Superstore**

BUSINESS WIRE

October 06, 1998

JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 920

... Exchange solution, enabling Insight to better service its fast growing customer base through greatly enhanced **order** processing power, scalability and site **manageability**. The new solution will be deployed by Cambridge in approximately 20 weeks, using Cambridge's...

... on the Web, with real-time pricing and availability information on more than 50,000 **products**. "Since our initial launch in March of 1995, the **number** of customers purchasing computer **products** through our site has steadily increased," stated Eric Crown, CEO of Insight. "The increased volume...

... promotions for specific clients or individual customers. In addition, these personalized transaction flows can be **changed** in **real-time** without re-coding the software. Insight can add new business components to their business processes...

... InterWorld InterWorld Corporation is a leading provider of enterprise-class Internet commerce software for sales, **order management**, fulfillment and customer service. The company develops, markets, and licenses high-performance, mission-critical enterprise...

... s services span management consulting, process innovation, custom and package software deployment (including ERP applications), **networking**, and training to rapidly **deliver** end-to-end business systems that create immediate bottom-line impact for its clients. Cambridge...

**28/3,K/4 (Item 3 from file: 20)**  
DIALOG(R)File 20:World Reporter  
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03004589

**ON Technology Announces First Y2K Solution for Unattended Deployment of Y2K Desktop Remediation and New PC Roll-Outs**

BUSINESS WIRE

October 05, 1998

JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 1377

... administrators to remotely: -- Perform Y2K rollover and leap year tests on the PC BIOS and **Real Time** Clock and then **update** PCs that have failed, using ON Command CCM and Centennial 2000 from Tally Systems. -- Flash...

... including Microsoft operating systems, desktop applications, and customized settings such as printers, IP addresses, and **Start Menu items** - a process known as performing "pristine installs" on new PCs. "An

alarming atmosphere of false...

... OnMark 2000 Assess also generates reports that are immediately valuable for estimating the Y2K problem **size** and impact, and for project **planning**. After remediation is completed, OnMark ...properties of their respective owners. The statements in this news release that relate to future **plans**, events or performance are **forward**-looking statements that involve risks and uncertainties, including risks associated with uncertainties pertaining to customer **orders**, demand for **products** and services, development of markets for the Company's products and services and other risks...



34/3,K/1 (Item 1 from file: 9)  
DIALOG(R)File 9:Business & Industry(R)  
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02725193 02326340 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**Chip maker's e-business hits \$10B paydirt**  
**(Intel's e-commerce efforts have sold more than \$10 bil worth of components through the Web since the middle of 1998)**  
Electronic Buyers News, p 5  
February 21, 2000  
DOCUMENT TYPE: Journal ISSN: 0164-6362 (United States)  
LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 809

(USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:

...Internet to cut data flow between trading partners from three weeks to 48 hours, reduce **inventory** by 70%, and **schedule production** activity around OEM **component** consumption instead of loose, customer forecasts, said Ray Lucchesi, business operations manager at the OEM...

...and customers to communicate with each other, place orders through the Net, and handle other **order** -fulfillment functions. However, users such as purchasing managers or supply-chain executives must spend considerable...

...the Internet, and many overseas and North American customers are placing a huge number of **orders** via the Net, he added.

Adjusting to such an approach certainly did not come without...

...the gaps manually since the new system is able to automatically handle much of the **order** -fulfillment process.

**Part** of the Internet offering's goal is to increase Intel's responsiveness to OEM demand...

...a third-generation Internet environment is the way to do that, Lucchesi said.

Within its **component** -replenishment process, for instance, Intel is working on a "pull" system, or responding to an OEM trigger for **components** rather than stockpiling **inventory** to meet a forecast.

By basing its own **production schedule** and capacity **plans** around consumption, Intel is able to lower **inventory**, increase its flexibility to meet demand, and significantly cut the time it takes when an...

34/3,K/2 (Item 2 from file: 9)  
DIALOG(R)File 9:Business & Industry(R)  
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01553098  
**Firms aim to improve supply-chain management**  
**(Many chemical firms are implementing measures to improve their supply-chain management)**  
Chemical & Engineering News, v 74, n 31, p 30+  
July 29, 1996  
DOCUMENT TYPE: Journal; Survey ISSN: 0009-2347 (United States)  
LANGUAGE: English RECORD TYPE: Abstract

ABSTRACT:

...and logistics. The supply chain is the effort involved in making and supplying a final **product** and this effort involves **managing** supply and demand, sourcing of raw materials and **parts**, **production** and assembly,

warehousing and **inventory** tracking, **order** entry and **management** ,  
distribution across all channels, and **delivery** to the customer. Very few  
chemical firms excel in supply-chain management, according to a...

**34/3,K/3** (Item 1 from file: 15)  
DIALOG(R)File 15:ABI/INFORM(R)  
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01870620 05-21612

**Managing for optimal performance through effective coordination of the  
supply chain**

Pagel, Darrick

Production & Inventory Management Journal v40n1 PP: 66-70 First Quarter  
1999

ISSN: 0897-8336 JRNL CODE: PIM

WORD COUNT: 3853

...TEXT: entails managing a variety of processes, including supply and  
demand, sourcing of raw materials and **parts** , **production** and assembly,  
warehousing and **inventory** tracking, **order** entry and **management** ,  
distribution across channels, and **delivery** to the ultimate consumer.  
Asbrand gives further insight on what SCM exactly is: "Like a...

**34/3,K/4** (Item 2 from file: 15)  
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01815689 04-66680

**Breaking through barriers to successful empowerment**

Willis, Ann K

Hospital Materiel Management Quarterly v20n4 PP: 69-80 May 1999

ISSN: 0192-2262 JRNL CODE: HMM

WORD COUNT: 5030

...TEXT: and ownership occurs. For self-directed work teams, this may  
include doing their own vacation **scheduling** , selection of temporary  
employees and training, **preparation** of daily **production** **schedules** ,  
**ordering** **parts** , goals for improvement, and **managing** **inventory**  
records. For project teams, this consists of selecting facilitators and  
leaders and determining milestones and...

**34/3,K/5** (Item 3 from file: 15)  
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01591217 02-42206

**50% savings**

Remich, Norman C Jr

Appliance Manufacturer v46n3 PP: 36-38 Mar 1998

ISSN: 0003-679X JRNL CODE: APL

WORD COUNT: 359

...TEXT: save FHP thousands of dollars in tooling costs.

From a warehouse adjacent to the FHP **plant** , Murfin employees **deliver**  
needed **parts** **directly** to points along the **production** line in the FHP  
facility. In addition, Murfin people replenish depleted **inventory** , advise  
**management** on economic **order** quantities, assist with application  
procedures, and deal with quality issues. -N. CR.

If you have...

**34/3,K/6** (Item 4 from file: 15)

DIALOG(R)File 15:ABI/INFORM(R)  
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01434591 00-85578

**ECR primer**

Anonymous

Software Magazine v17n6 PP: 46 Jun 1997

ISSN: 0897-8085 JRNL CODE: SMG

WORD COUNT: 305

...TEXT: The goal is to make this as automated as possible, thereby reducing costs related to **ordering** and stocking **items** .

\* **Vendor- Managed Inventory** . Part of the continuous replenishment concept, VMI means that the **manufacturer** takes responsibility for the retailer's **inventory** . This can also be enabled through **DirectStore Delivery** , where the **manufacturer** and retailer deal with each other **directly** , without the use of a wholesaler.

**34/3,K/7 (Item 5 from file: 15)**

DIALOG(R)File 15:ABI/INFORM(R)

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01311695 99-61091

**ASU launches new Arizona Purchasing Manager's Index**

Strozier, Yolanda D

AZB Arizona Business v43n9 PP: 1-4 Sep 1996

ISSN: 1079-4255 JRNL CODE: ABB

WORD COUNT: 1941

...TEXT: members of the purchasing management associations. The survey focuses on seven indicators, five of which -- **delivery** times, purchased material inventory levels, new orders, **production** and employment --make up the composite index, which acts as a leading economic indicator.

Respondents...

... lower or the same as the previous month. Once a year the survey also queries **managers** on capital expenditures.

Movements in coincident economic indicators reflect the current state of the economy...

... now be expressed as a seasonally adjusted index much like the National Association of Purchasing **Managers** ' Index that is reported each month in the national press. Expressing the results of the Arizona survey as a seasonally adjusted index allows for easier interpretation and more **direct** comparison to the National Purchasing **Managers** ' Index.

Seasonal adjustment factors take into account the effects of recurring variations from year to...

...many other situations including weather conditions, school vacations and other holidays. Analysis of the index **components** suggests that all of the **components** have significant seasonal patterns with the exception of delivery times.

**COMPARISON TO THE NATIONAL PURCHASING MANAGERS INDEX**

The Arizona Purchasing **Managers** ' Index surveys a broad spectrum of industries, while the National Association of Purchasing **Management** surveys only manufacturing companies across the country.

The National Purchasing **Managers** ' Index is a composite index based on seasonally adjusted diffusion indexes for five indicators (new **orders** , **production** , supplier deliveries, **inventories** and employment) with

varying weights. Diffusion indexes have the properties of leading indicators and provide...

**34/3,K/8 (Item 6 from file: 15)**  
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00956560 96-05953

**Making best use of performance measures and information**

Dumond, Ellen J

International Journal of Operations & Production Management v14n9 PP:  
16-31 1994

ISSN: 0144-3577 JRNL CODE: IJO

WORD COUNT: 5760

...TEXT: to use this information in responding to the problem situation. This information may relate to **product** development, **production** equipment and processes, **inventory** status, **production schedules**, or other internal situations.

Information about external events. For this research, external information includes:

\* other... has particular consequences associated with it. For example, a decision to acquire the lowest price **component** from an unreliable supplier might result **directly** in lower cost of materials, late deliveries or poor quality **components** and ultimately lead to reduced contribution to profit. In general, these effects (both **direct** and indirect) were captured through the simulation, in terms frequently associated with efficiency (e.g...

...set parameters for a simulation of a factory. The simulation, programmed in FORTRAN, simulates the **production** environment of a firm--generating demand for the end item, developing a master **production schedule**, placing orders for materials, shipping **orders** of the end item, and updating **inventory** records--for a period of 12 months. In the base case, the simulation performs in...

**34/3,K/9 (Item 7 from file: 15)**  
DIALOG(R) File 15:ABI/INFORM(R)  
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00922263 95-71655

**The utility of information systems: Views of CEOs and information system executives**

Yasin, Mahmoud M; Quigley, John V

Industrial Management & Data Systems v94n5 PP: 25-29 1994

ISSN: 0263-5577 JRNL CODE: IDS

WORD COUNT: 2585

...TEXT: efficiency of the input, process and output subsystems of the organization. Systems such as computerized **inventory** control systems, accounting systems, human resources systems, **production** and operational control systems, and warehousing/distribution systems were cited as examples of information systems...

... felt that information systems in the form of decision support systems, expert systems and strategic **planning** systems have significantly contributed to the effectiveness of their organizations. CEOs were of the opinion...

... satisfied with the technical skills of information systems professionals, but not with their organizational and **managerial** skills. Also, they were highly satisfied with the utility of information systems in terms of...

...forward information systems applications that have a strategic focus;

- \* the inability of ISEs to lead, **manage** , and motivate their staff effectively;

- \* the inability of ISEs to control their operating costs, especially...

...understand the potentials and limitation of information systems;

- \* the inability of CEOs to provide clear **direction** and realistic expectations with regard to information systems investment;

- \* the inability of CEOs to see...

... increase in the future. However, CEOs indicated that the extent of such investment will be **directly** linked to the ability of ISEs to find ways to measure return on investment of...

... the system did what it was supposed to do. However, concern for quality was not **part** of the organization culture. Therefore quality did not improve. This gap can be narrowed, if...

...in the short run through training programmes and in the long run through formal education. **Managerial** and behavioural training and education of information executives are needed. Such training and education will...cost to the organization. Training and education of both CEOs and ISEs are needed in **order** for them jointly to chart the future course of information systems which is capable of...

... between business and higher education is called for to enable higher education to trade its **managerial** and behavioural training capabilities for technical resources and practical know-how. Such joint venture has...

...1991, pp. 80-5.

2. Vickery, S.K, "International Sourcing: Implications for Just-in-time **Manufacturing** ", **Production and Inventory Management Journal**, Vol. 30 No. 3, Third Quarter, 1989, pp. 66-71.

3. Schniederjans, M.J...

**34/3,K/10** (Item 8 from file: 15)  
DIALOG(R)File 15:ABI/INFORM(R)  
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00727161 93-76382

**How to Find a Postal Pro**

Maciejewski, Jeffrey

Catalog Age v9n7 PP: 113-114 Jul 1992

ISSN: 0740-3119 JRNL CODE: CTA

WORD COUNT: 2051

...TEXT: to look, you need to know what qualities to look for in a potential partner.

#### **PRODUCTION PROFICIENCY**

For one, a postal expert must have a thorough understanding of **catalog** production. Though actual hands-on training with every portion of the print **production** process isn't a prerequisite, your postal expert should be familiar with the key steps of **catalog production** and, most important, how print **production** is handled by your own operation. For example, if you require the use of specialized...

...those requirements before your job goes on press.

In addition to being proficient in actual **catalog production**, your postal expert should understand postal rate dynamics and how mail-piece quantity affects postal...

... mail makeup requirements will affect postal costs and any resulting savings from using these techniques.

#### **LIST WIZARDRY**

In tandem with an education in **catalog production**, your postal expert should be well-versed in mailing **list** management and list **preparation**. It's critical that he or she understand which list service you require and how...

**34/3,K/11** (Item 9 from file: 15)  
DIALOG(R)File 15:ABI/INFORM(R)  
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00716232 93-65453

**The shared cataloging system of the Ohio College Library Center**  
Kilgour, Frederick G; Long, Philip L; Landgraf, Alan L; Wyckoff, John A  
Information Technology & Libraries v12n1 PP: 113-132 Mar 1993  
ISSN: 0730-9295 JRNL CODE: JLA  
WORD COUNT: 10256

...TEXT: contains the same pointer to the bibliographic record.

When a bibliographic record is used for **catalog card production**, an entry is made in the holdings file. When the first holdings entry is made ...

... of available disk area need be reserved for growth of these large sequential files. Disk **units** can be added as needed. Each fixed-length record in the scatter-store files is...of the list of holdings for the record. In addition, each record has a small **directory** for the construction of truncated author-title-date entries, which are displayed to allow a...number index. (Figure 7 omitted) The three left-most bytes in the LC card number **section** contain an alphabetic prefix to a number here this is present, or, more usually, three...

...online application program is CATALOG (CAT); its functions are described in detail in the subsequent **sections** entitled "Cataloging with Existing Bibliographic Information" and "Input Cataloging." In general, CAT accepts requests from...memory image of the record onto a tape to be used as input to the **catalog card production** programs.

The **catalog card production** programs operate off-line, and the first processing program is CONVERT (CNVT), which formats some...

... into the total number of card images corresponding to the total cards required by the **requesting** library for each particular title. FORMAT determines this total from the number of tracings and...

... an extensive revision of EXPAND, contains many options not found in the old off-line **catalog card. production** system. FORMAT can set up a contents note on any particular card, and puts tracings...

**34/3,K/12** (Item 10 from file: 15)  
DIALOG(R)File 15:ABI/INFORM(R)  
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00639876 92-54816

**How MRP II Helped Resupply Gulf Warriors**  
Ward, Michael  
Manufacturing Systems v10n10 PP: 78-81 Oct 1992  
ISSN: 0748-948X JRNL CODE: MFS

...TEXT: one underestimated the extent of the problem. There were as many as 40,000 "live" **manufacturing orders** on the go at any one time, drawing **parts** from a **list** totaling 70,000. Although an army of people attempted to **schedule production**, **parts** shortages prevented **orders** from being completed on **schedule**. On average, **deliveries** were six months late.

Reflecting on the way it was, Manufacturing Director Lawrie Rumens acknowledges...

**34/3,K/13** (Item 11 from file: 15)  
DIALOG(R)File 15:ABI/INFORM(R)  
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00464759 89-36546

**Getting Control of Just-in-Time**

Karmarkar, Uday

Harvard Business Review v67n5 PP: 122-131 Sep/Oct 1989

ISSN: 0017-8012 JRNL CODE: HBR

...ABSTRACT: do with JIT directly. JIT tries to manage lead times and eliminate waste. Material requirements **planning** (MRP) mandates building to the **scheduled delivery** of the final **product**. Materials resource **planning** (MRP II) begins **production** of various **components**, releases **orders**, and offsets **inventory** reductions. MRP does not conflict with JIT, but it must assume a fixed **production** environment with fixed lead times. The kanban method overcomes the deficiencies of MRP. Kanban combines **production** control with **inventory** control. This method works best when there is a uniform flow; it does not plan...

**34/3,K/14** (Item 12 from file: 15)  
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00172202 82-13763

**Mini-Based System Fires Up Firm's Productivity**

Anonymous

Computerworld v16n19 PP: 49 May 10, 1982

ISSN: 0010-4841 JRNL CODE: COW

...ABSTRACT: inventory tracking system to become obsolete. With the manual system, there was little correlation between **production orders** and **inventory** on hand, which resulted in an unbalanced **inventory** and delayed **production orders** and **delivery orders**. The company selected Wang Laboratories Inc.'s VS 80 central processing **unit** to process financial applications, accounting, budgeting, and engineering design formula calculations. IPE-Cheston also installed a material requirements **planning** package, which maintains and considers all elements of the manufacturing process and provides users with information and recommendations for **management** control. The package installation resulted in increased **inventory** accuracy, customer service, and **manufacturing productivity**.

**34/3,K/15** (Item 1 from file: 20)  
DIALOG(R)File 20:World Reporter  
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06295840 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**The Arizona Republic AZ Inc. Column**

KRTBN KNIGHT-RIDDER TRIBUNE BUSINESS NEWS (ARIZONA REPUBLIC - PHOENIX, ARIZONA)

July 20, 1999

JOURNAL CODE: KAZR LANGUAGE: English RECORD TYPE: FULLTEXT  
WORD COUNT: 449

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... local economy is growing, while a reading below 50 suggests a slowing economy.

The Purchasing **Managers** ' Index is a composite index based on five **components** : **delivery** time, **inventories** , new **orders** , **production** and employment.

ANSWERS FROM ORTHOLOGIC: OrthoLogic Corp. said it has submitted an amendment to materials...

34/3,K/16 (Item 2 from file: 20)  
DIALOG(R)File 20:World Reporter  
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05802448

**VISTEON AUTO PARTS INVESTS IN SATELLITE PLANTS**  
MEXICO BUSINESS MONTHLY

July 01, 1999

JOURNAL CODE: WMBM LANGUAGE: English RECORD TYPE: FULLTEXT  
WORD COUNT: 58

Visteon de Mexico **plans** to build satellite factories close to the vehicle **manufacturers** which it **supplies** in **order** to reduce **delivery** times and costs and **inventories** , reports El Financiero (May 25, 1999). The vehicle **parts manufacturing** company says it hopes to increase its sales on the domestic market this year to...

34/3,K/17 (Item 3 from file: 20)  
DIALOG(R)File 20:World Reporter  
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05470176

**Visteon Auto Parts Invests in Satellite Plants, Expects 400 Percent Rise in Sales**

CORPORATE MEXICO (EL FINANCIERO)

May 25, 1999

JOURNAL CODE: WEFM LANGUAGE: Spanish RECORD TYPE: ABSTRACT  
WORD COUNT: 54

Visteon de Mexico **plans** to construct satellite factories close to the vehicle **manufacturers** which it **supplies** in **order** to reduce **delivery** times and costs and **inventories** . The vehicle **parts manufacturing** company hopes to increase its sales on the domestic market this year to 1.5...

34/3,K/18 (Item 1 from file: 813)  
DIALOG(R)File 813:PR Newswire  
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1274558 NYSP001  
**IN OIL SU RTG TO BUSINESS EDITOR:**

DATE: May 11, 1998 07:34 EDT WORD COUNT: 521

... over 10 times. The company has high working capital requirements since it maintains a large **inventory** of small **products** and **manufactures** large **units** on receipt of purchase **orders** , which are **cancelable** , from customers. **Management** practices a conservative financial policy. Share repurchases are limited to modest amounts. The company keeps...



34/3,K/19 (Item 2 from file: 813)  
DIALOG(R) File 813:PR Newswire  
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1162236

PHF007

**ISLIP Media, Inc. Introduces the MediaKey Digital Library System**

DATE: October 3, 1997 08:15 EDT WORD COUNT: 1,638

... rudimentary digital archives with limited retrieval capabilities. With MediaKey, not only can the news department **catalogue** incoming news feeds for real-time **production**, but the features department can search a video archive of clips about the year, decade...

... benefits of the MediaKey system are derived from the unique integration of the system's **components** : MediaKey Builder, MediaKey Finder, and MediaKey Logger.

MediaKey Builder is a computer-automated video and...

... the audio signal, and natural language processing determines word relevance. These processes work together to **segment** the media content into video paragraphs, the key element in building searchable video libraries. The...

...audio are digitized into a standards-based MPEG format.

Step 2. The digitized media is **sent** to a processor which generates a topical index and a full-content, time-aligned transcript...

...ROMs. ISLIP returns fully indexed video on CD-ROMs, hard disks, or other digital media, **ready** to be included into the customer's video storage system.

MediaKey Finder is an intelligent...

... automated indexing process. The most unique search feature is the ability to accurately pinpoint the **requested** information within the video ... a computer-generated storyboard for quick viewing. In this view, only the most relevant sub-**sections** of the video paragraph are displayed in frames, and key words defined in the query...

...15-20% of its original length. This patented feature automatically plays only the most important **sections** of the video paragraph in a fraction of the time required to view the entire...

...applications to enhance reports, presentations, or spreadsheets. Text in the form of video transcripts or **director** 's notes can also be exported for re-use.

MediaKey Logger, real-time **cataloging** and search and retrieval software for **production** environments, is currently under development.

System Configuration and Performance

MediaKey Finder software, which is packaged...

34/3,K/20 (Item 1 from file: 624)  
DIALOG(R) File 624:McGraw-Hill Publications  
(c) 2000 McGraw-Hill Co. Inc. All rts. reserv.

0168541

**Airod Expands Maintenance Capability To Attract Commercial Customers**

Aviation Week & Space Technology November 6, 1989; Pg 63; Vol. 131, No.

19

Journal Code: AW ISSN: 0005-2175  
Section Heading: Malaysian Air Transport - Part 2

Dateline: SUBANG, MALAYSIA  
Word Count: 778 \*Full text available in Formats 5, 7 and 9\*

TEXT:

...unit and digital engine rotor balancing equipment. An IBM 4330 mainframe computer is used for **inventory** , **production** control and financial systems.

By year end Airod **plans** to have full overhaul capability for Pratt & Whitney Canada PT6 turboprop engines. The company already...

...228 light transport.

A move to wide-body airframe repair and overhaul, such as Boeing **Section** 41 replacement, might require leasing or buying a second facility, according to Watt. To support...

... said. These carriers include Asiana in South Korea, Dragonair in Hong Kong and an airline **planned** by Evergreen, a Taiwanese shipping company. Most established carriers in the region have their own...

...work on Air Niugini's new Airbus A310-300. A second A310-300 has been **ordered** by the Papua New Guinea carrier for 1990 **delivery** .

Potential new military contracts include repairing and overhauling the Rolls-Royce RB199 engines in 12 Panavia Tornado fighter bombers the Malaysian government **plans** to purchase. If the sale is confirmed, Airod is likely to bid on related aircraft...

... and Singapore Aerospace Industries also are likely to bid for that contract.

Airod has not **requested** U. S. Federal Aviation Administration certification as a foreign repair station because it has not...

...has been inspected by the U. S. Air Force for F-16 and F-4 **component** repair and overhaul work. It also has been approved for aircraft repair by the civil...

...advertisements for experienced technicians, Watt said. About 125 degreed engineers are on an employment waiting **list** .

All Airod **production** **managers** and their deputies hold engineering degrees, Watt said. About 40 new hires from local technical...

10490554 SUPPLIER NUMBER: 21173567 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**A 55-Year-Old Man With Attention- Deficit/Hyperactivity Disorder.**  
Biederman, Joseph  
JAMA, The Journal of the American Medical Association, v280, n12, p1086(1)  
Sept 23, 1998  
ISSN: 0098-7484 LANGUAGE: English RECORD TYPE: Fulltext; Abstract  
WORD COUNT: 7899 LINE COUNT: 00665

TEXT:

...Dr Biederman receives clinical research funding or honoraria from 10 pharmaceutical companies, several of which **manufacture** drugs discussed in this article. This conference took place at the Combined Psychiatry Grand Rounds...

...Delbanco, MD, Jennifer Daley, MD, and Richard A. Parker, MD; Erin E. Hartman, MS. is **managing** editor. Clinical Crossroads **section** editor: Margaret A. Winker, MD, Senior Editor, JAMA. DR PARKER; Mr Lisa 55-year-old ...

...boys who was recently diagnosed as having attention-deficit/hyperactivity disorder (ADHD). He is general **manager** for a biotechnology company, lives in a suburb of Boston, Mass, and has commercial **managed** care insurance, which he is concerned may not cover his recent psychological evaluation. His first...

...tended to procrastinate, not allow enough time to do homework, and have difficulty with basic **scheduling**. His grades were so poor that he initially did not get into college. He eventually...

...doctoral program at a prestigious university, but he dropped out because of difficulties focusing and **managing** his time. Mr L attempted to improve the problems through reading self-help books, attending seminars on time **management**, and receiving counseling, but none of these helped. He also was troubled by his inability...

...is the issue?" It was not an intellectual problem per se. It was more procrastination, **scheduling** issues, and not allowing enough time to do the homework. Always figuring, "Well, I'll...

...haunted me that I was not able to complete the PhD program. It was not **related** to my capacity to do the work but an inability to focus appropriately to be able to accomplish the required work. Seeking help with my time **management** problems is something I have done on my own. I assembled a large self-help...

...I would gradually slide away from them and return to responding to stimuli and not **planning** in a rigorous fashion. My wife and I had been having some marital problems **related** to this inattention issue. Now that I have had insight into ADHD, and I'm...

...behavior. But my wife has observed enormous change in my behavior. This behavior relates to **listening**, following through, and being connected and not drifting away in conversations. She had expressed before...

...they have 10 of these 12 characteristics, then I think the primary care physician should **listen**, because I think the patient probably finds something that clearly rings a bell. DR M...patients to clearly remember. Finally, since psychostimulants, the mainstay of treatment for this disorder, are **schedule** II drugs, their use raises a variety of clinical and medicolegal concerns in the primary...

...of ADHD remains unknown, an emerging neuropsychological and neuroimaging literature suggests that abnormalities in frontal **networks** or

frontostriatal dysfunction are the disorder's underlying neural substrate and catecholamine dysregulation is its...is not atypical for ADHD individuals with good intellectual abilities who may either underachieve or **function** to potential in different settings, contingent on their ability to adequately attend to tasks. Yet...

...Although adults with ADHD often have a number of ADHD symptoms that significantly impair their **functioning** in key areas of their lives, these difficulties are often noticed by others but not...

...be easily overlooked in clinical practice unless actively elicited with a straightforward approach using the **list** of symptoms provided in DSM-IV. We have used this approach in clinical trials of...

...the 2 (disorders.sup.45). To the degree that diagnosis influences treatment, the application of **hierarchical** diagnostic principles may prematurely limit therapeutic options. Mr L has no signs of psychiatric comorbidity...equally important, the individual's social and family life. Potentially useful psychotherapeutic efforts in the **management** of ADHD patients include cognitive-behavioral interventions, such as training in self-instruction, self-evaluation, social skills, and anger (**management** .sup.46) Patients with both ADHD and learning disabilities may require additional educational support. Because...

...amphetamine (Dexedrine), magnesium pemoline (Cylert), and, more recently, mixed salts of a single-entity amphetamine **product** (Adderall). These drugs are thought to act both in the central nervous system and peripherally...

...a single dose to be administered in the morning that will last for a substantial **part** of the school or workday. Because the effects of stimulants are neither paradoxical nor specific...

...problems. Stimulants also improve ADHD-associated behaviors, including on-task behavior, academic performance, and social **function**. These effects appear to be dose dependent and cross-situational, including home, clinic, and school...

...concern. Although short-term studies have documented rapid improvement in the core ADHD symptoms, associated **functional** improvement may lag symptom remission. The ultimate effectiveness of anti-ADHD medication on cognitive and...

...pemoline has been associated with hypersensitivity reactions involving the liver accompanied by elevations in liver **function** studies (aspartate aminotransferase and alanine aminotransferase) after several months of treatment. Thus, baseline liver **function** studies and repeat studies are recommended with the administration of this compound. Antidepressants.-- After the...TCAs, bupropion hydrochloride has also been tested in ADHD. Bupropion is a novel aminoketone antidepressant **related** to the phenylisopropylamines but pharmacologically distinct from available (antidepressants.sup.51) Although bupropion possesses both...

...treatment of core symptoms of ADHD. However, these drugs can be most helpful in the **management** of comorbid mood and anxiety disorders frequently observed in adults with (ADHD.sup.48) Because...

...prescribed for ADHD are presented in Table 2. Despite the availability of various agents for **managing** ADHD, many individuals either do not respond to or are intolerant of the adverse effects...your opinion about sustained-release Ritalin? DR BIEDERMAN: Sustained-release Ritalin is a very poor **product**. The current sustained-release Ritalin has a wax matrix, a very old technology of slow...464-470. 31. Biederman J, Milberger S, Faraone S, et al. Impact of adversity on **functioning** and comorbidity in children with attention-deficit hyperactivity disorder. *J Am Acad Child Adolesc Psychiatry*...

...Biederman J, Faraone SV, Spencer T, et al. Patterns of psychiatric

comorbidity, cognition and psychosocial **functioning** in adults with attention deficit hyperactivity disorder. Am J Psychiatry, 1993;150:1792-1798. 35...

...Biederman J, Farsone S, Weber W, Mennin B, Jones J. A pilot study of neuropsychological **function** in ADHD girls. I Am Acad Child Adolesc Psychiatry. 1997;36:366-873. 42. Seidman...

...Psychol. 1997;65:150-160. 43. Seidman LJ, Biederman J, Farsone SV, Ouellette C. Neuropsychological **functioning** in adults with ADHD. Biol Psychiatry. In press. 44. Barkley RA, Grodzinsky GM. Are tests of frontal lobe **functions** useful in the diagnosis of attention deficit disorders? Clinical Neuropsychologist. 1994;8:121-139. 45...Slimmer LW. Attention deficit disorder and the effect of methylphenidate on attention, behavioral, and cardiovascular **functioning**. J Clin Psychiatry. 1984;45:478-476. 52. Wender PH, Reimherr FW. Bupropion treatment of...

...for at least 6 months to a degree that it is maladaptive and inconsistent with **developmental level**: a. Often fails to give close attention to details or makes careless mistakes in schoolwork...

...attention in tasks or activities that require sustained attention c. Often does not seem to **listen** d. Often does not follow through on instructions and fails to finish schoolwork, chores, or...

...for at least 6 months to a degree that it is maladaptive and inconsistent with **developmental level**: a. Often fidgets with hands or feet or squirms in seat b. Often leaves seat...

...D. There must be clear evidence of clinically significant impairment in social, academic, or occupational **functioning** (\*) Criteria are adapted from the Diagnostic and Statistical Manual of Mental Disorders, Fourth Edition.6...

24/3,K/2 (Item 2 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
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05513147 SUPPLIER NUMBER: 11522100 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
New workflow system "goes beyond Staffware, Workhorse and Rhapsody" -  
Grossenbacher. (Product Announcement)  
Computergram International, nl809, CGI11210010  
Nov 21, 1991  
DOCUMENT TYPE: Product Announcement ISSN: 0268-716X LANGUAGE:  
ENGLISH RECORD TYPE: FULLTEXT  
WORD COUNT: 457 LINE COUNT: 00040

... held Swiss concern whose heritage lies with industrial automation, has branched off into computer-integrated **manufacturing** with its first software engineering tool, a package called PACE, that it believes represents a new generation in graphical modelling. The software is targeted at three market **segments**, the hottest of which is workflow **management**. Designed in conjunction with the Swiss Federal Institute of Technology in Zurich, PACE is based...

...depict organisational structures (groups, departments, divisions) graphically through icons; simultaneously to model information (orders, mail, **production** flow) flowing through those structures; simulate and statistically analyse workload, efficiency and profitability; interface with office automation **functions** to produce documents, print, send electronic mail, activate batch processes, or do SQL **functions** to a database; generate the code for the PACE-defined and modelled applications; and implement the workflow on the target system. Strategic **product manager** Alfred Escher says PACE goes beyond anything currently available, including London's StaffWare, Dublin's...

...will work on both Unix and MS-DOS machines, he says, as well as in **networked** environments. Grossenbacher envisions the software used on the factory floor for industrial automation programming, in operations **planning** and at the administrative and organisational level as an expert system tool. PACE has been...

...is just now being released. Grossenbacher is looking to build a worldwide multi-channel distribution **network** for PACE, and will be in the US this week scouting out OEM customers, distributors and large accounts at Unix Expo. It believes some **parts** are still missing from its workflow **functionality**, such as a specific set of user interface **functions** and standard hooks to major office automation packages. To fill in the gap, it will...

...such verticalised software more widely. Demonstration software is available for a fee. The package will **list** for 15,000 Swiss francs or around \$10,000. In the next iteration, the company...

...PACE contains an integrated graphical editor, interactive simulator and visual animator. It is equipped with **hierarchical** nets, reusable subnet libraries and interactive syntax consistency checks.

24/3,K/3 (Item 3 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
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03526910 SUPPLIER NUMBER: 06833377 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Article finder. (index) (EDGE Report)**  
Electronic Design, v36, n15, p93(45)  
June, 1988  
ISSN: 0013-4872 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
WORD COUNT: 50668 LINE COUNT: 04386

... arrays ... B Electronic Design 3/17/88 p145 Aldec ... (ALEC)  
Program converts microcontroller chips to **function** as PLDs with unlimited I/O capacity ... B Electronic Design 3/31/88 p153 Analog...

...Design Tools ... (Analog Workbench) Review of how analog chip design simulations can be optimized for **manufacturability** ... E VLSI Systems Design January '88 p28; 4 pp Analog Design Tools ... (Circuit Design Tool Kit) Analog circuit simulator surpasses Spice, predicts **manufacturing** yields, finds stressed **components** ... A Electronic Design 3/17/88 p95 Analog Design Tools ... (IC Design Tool Kit) Design...

...Design 2/18/88 p69 Analog Design Tools ... Analog CAE goes beyond Spice to predict **manufacturing** yields, find stressed **components**, and more ... A Electronic Design 1/7/88 p111 Analog Design Tools ... The views of... ...to clocked digital devices ... E VLSI Systems Design January '88 p16; 6 pp Arium ... (ECHO) **List** of distributors for ECHO real-time emulator-based C-debug environment ... A EDGE 3/88...more ... A Electronic Design 2/18/88 p117 ECAD ... Tutorial on leaf cell design, a **hierarchical** design with regularity whose building blocks are known as leaf cells ... E VLSI Systems Design...

...to Design Automation Vol. III No. 1 p64; 6 pp EDA Systems ... The view of **director** of business development Tony Zingale on the value of software tools vs the data they...

...Etron RF Enterprises ... (RF Notes No. 4) Program analyzes R, L, C, and transmission-line **networks**, runs on PC ... B Electronic Design 3/17/88 p143 Exel Microelectronics ... (TTL Macro Library...

...No. 1 p50; 5 pp Gould Electronics ... (Expert ASIC) ASIC cell compilers squeeze digital, analog **functions** into ICs ... A Electronic Design 2/18/88 p79 Gould Electronics ... (Netrans) Netlist translator frees...

...to use, and affordable ... A Electronic Design 2/18/88 p118 Harris Semiconductor ... Review of **production** applications for logic synthesis and optimization ... E VLSI Systems Design January '88 p40; 4 pp...  
...User's Guide to Design Automation Vol. III No. 1 p40; 6 pp International Microelectronic **Products** ... The views of **director** of strategic marketing Peter Hillen on developments in mixed mode simulation software...E Computer Design...

...under varying conditions ... E Electronic Design 3/17/88 p144; 1 pp Logic Automation ... Bulletin **lists** all Smart-Model behavioral language models...B Electronic Design 3/17/88 p162 Logic Automation...Semiconductor Israel Ltd...Review of a smart system whose acceleration and deceleration techniques allow extracting **register** -transfer-file (RTL) simulation models **directly** from a logic-level schematic ... E VLSI Systems Design February '88 p32; 4 pp Motorola...

...DSP56000 family ... A Electronic Design 3/17/88 p51 Motorola ... (Modular Design System) Software system **supplies** technology-independent toolbox for gate arrays and cell-based logic...B Electronic Design 1/7...

...5 pp Personal CAD Systems ... (Master Designer 386) Multilayer routing, change order processing option are **part** of 286- and 386-based board CAE software ... E Electronic Design 2/4/88 p156...

...CapFast CF1000) Schematic capture program for PCs designs pc boards and PLDs, includes 2000 library **components** ... E EDN 3/31/88 p235; 1 pp Phase Three Logic ... (CapFast CF1000) Schematic capture...

...Calculations ... (uCards System) Printed-circuit board design software for VAX-station 2000 can place 600 **components**, route 20 layers ... B Electronic Design 3/17/88 p145 SDA Systems/ECAD ... (Design Framework) CAE tool vendors join forces, meld **products**, pool R&D ... B Electronic Design 3/17/88 p22 Seattle Silicon ... (Chip Crafter Design...

...program runs on IIP computers ... B Electronic Design 3/3/88 p138 Synopsys ... Review of **production** applications for logic synthesis and optimization ... E VLSI Systems Design January '88 p40; 4 pp...

...User's Guide to Design Automation Vol. III No. 1 p72; 6pp Texas Instruments ... (CCITT **Function** Library) **Function** library **supplies** image compression/decompression according to CCITT Group 3, 4 standards...E EDN 2/4/88...

...Technologies ... (Knowledge Consultant) ASIC design software creates rules for expert systems via graphics ... E Electronic **Products** 1/15/88 p44; 1 pp Trimeter Technologies ... (Schematic Generator) Software generates schematics from netlists...  
...chips for standard ICs ... E Electronic Design 2/18/88 p41; 5 pp Various ... A **directory** that includes a 10-pp comparison table of available pe-board layout systems ... E VLSI...

...User's Guide to Design Automation Vol. III No. 1 p118; 10 pp Various ... A **directory** that includes a 14 pp comparison table of available CAE systems ... E VLSI Systems Design's User's Guide to Design Automation Vol. III No. 1 p96; 14pp Various ... A **directory** that includes an 8-pp comparison table of available IC layout systems ... E VLSI Systems... applications ... E EDN 2/18/88 p61; 4 pp Various ... Review of available CAE data-**management** and integration software **products** ... E Computer Design 1/1/88 p27; 3 pp Various ... Review of available circuit simulators ...

...January '88 p36; 2 pp Various ... Review of developments in CAE software packages ... E Electronic **Products** 2/1/88 p24; 6 pp Various ... Review of developments in computer-aided software engineering...

...Various ... Review of developments in software for translating CAE simulation into test vectors ... E Electronic **Products** 2/15/88 p13; 3 pp

Various ... Review of modeling strategy developments in software for...  
...pp Viewlogic Systems ... (Workview 2000, 3000) Engineering software  
breaks 640-kbyte barrier of MS-DOS, **manages** 50,000-gate designs on PC...E  
Electronic Design 3/31/88 p134; 1 pp...

...the ability to handle larger boards as well as analog and digital  
simulations ... E Electronic **Products** 3/15/88 p54; 0.5 pp Visionics ...  
(EE Designer) Analog simulation module completes line fo CAE/CAD **products**  
... B Electronic Design 3/17/88 p145 VLSI Technology ... (VGT100) Datapath  
and state-machine compilers..



27/3,K/1 (Item 1 from file: 148)  
DIALOG(R) File 148:Gale Group Trade & Industry DB  
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10942204 SUPPLIER NUMBER: 54158798 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Get Automated.**

Brantle, Thomas; Patil, Prathap

Wireless Review, NA

March 31, 1999

LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 1782 LINE COUNT: 00153

**TEXT:**

...network (TMN) architecture can do all of this and more.  
Provisioning Physical Resources As wireless **networks** are built, **network** elements are **added** and configured in phases. Capturing a complete and accurate picture of an entire network -- each...

...applications for transport sub-network. By providing a view of the physical connectivity in the **network** as well as work-order tracking for **network** activities, PRM **manages** the provisioning process from the time a **request** is received until physical implementation is complete. An easy-to-use, interactive graphics-based interface...

...the same accurate and up-to-date information. In addition, having central access to the **network order** reduces the time it takes to track **order status** and improve coordination in the provisioning process. PRM also **directly** facilitates surveillance and maintenance activities by providing the gateway interface to other network-operations systems...

...has vital information and configuration data that various organizations need to access. ATP reduces the **number** of **direct** queries and updates, and eliminates a significant **amount** of the load placed on switches. The ATP system also can manage the translation interfaces...need for centralized network translations and provisioning increases, the functionality of the ATP software will **expand** to support intelligent **network** elements such as SCPs for SS7-related updates. Similarly, ATP will accommodate intelligent peripheral elements such as voice-mail systems for updates...

...other applications requiring network information. To ensure adequate capacity always is available, these systems perform **dynamic changes** when call patterns fluctuate (natural-disaster events or concert-ticket sales). When it comes time...

27/3,K/2 (Item 2 from file: 148)  
DIALOG(R) File 148:Gale Group Trade & Industry DB  
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08229796 SUPPLIER NUMBER: 17539623 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Protecting free trade in audiovisual entertainment: a proposal for counteracting the European Union's trade barriers to the U.S. entertainment industry's exports.**

Kessler, Kirsten L.

Law and Policy in International Business, 26, n2, 563-611

Wntr, 1995

ISSN: 0023-9208 LANGUAGE: English RECORD TYPE: Fulltext; Abstract

WORD COUNT: 22155 LINE COUNT: 01809

... XXIII. The agreement ending the Uruguay Round does away with this requirement. (54.) U.S. **Requests** Consultations on E.C. TV Broadcast **Directive**, GATT Focus, Nov. 1989, at 3. (55.) Pub. L. No. 93-618, sections| 301, 88...

...Section 301 standards and procedure. (56.) H.R. Res. 257, supra, note 47. (57.) US **Requests** Consultations on EC TV Broadcast **Directive**, supra

note 54. (58.) Smith, *supra* note 4, at 123-27. (59.) Steven Greenhouse, Europe...of unreasonable acts and examples of discriminatory acts see *id.* at 641 45. (104.) Under **Section** 301, the USTR is authorized to: (A) **suspend**, withdraw, or prevent the application of, benefits of trade agreement concessions, or (B) impose duties...113.) Under Section 301 any interested person may file a petition with the Trade Representative **requesting** that action be taken. **Section** 301, **sections** | 2411(a)(1). (114.) Dennis Wharton, Place Europe on Trade Watch List, MPEAA Says, Daily ...

...Euro Union Offers Olive Branch; But de Deus Pinheiro Warns H'wood Not to Expect **Immediate Change**, Hollywood Rep., March 2, 1994 available in LEXIS, Nexis Library, Curnws File. (143.) As an...Trade Rep., June 22, 1994, at 1000. (199.) Suzanne Perry, Europe's Film, TV Industries **Prepare Battle Plan**, The Reuter European Business Report, July 3, 1994, available in LEXIS, Nexis Library, Curnws File.

34/3,K/1 (Item 1 from file: 634)  
DIALOG(R) File 634:San Jose Mercury  
(c) 2000 San Jose Mercury News. All rts. reserv.

04094389

**SURVEY FINDS ECONOMIC GROWTH**

SAN JOSE MERCURY NEWS (SJ) - Monday, November 30, 1987

By: New York Times

Edition: Stock Final Section: Business Page: 20E

Word Count: 407

...row, particularly for metals, plastics and paper products, which were in short supply.

The purchasing **manager** 's composite index of the major **components** of the survey -- new **orders** , **production** , vendor **deliveries** , **inventories** and employment -- stood at 58.9 percent this month. That is down somewhat from October...

34/3,K/2 (Item 1 from file: 810)  
DIALOG(R) File 810:Business Wire  
(c) 1999 Business Wire . All rts. reserv.

0158045 BW770

**ELECTRONIC BUYERS NEWS: 1989 positive year for electronics industry, QUEST Index shows**

January 4, 1990

Byline: Business Editors & Electronic/Computer Writers

...activity in the electronics industry.

Based on a survey of over 500 electronics company purchasing **managers** , it is a composite of five **components** ; **production** , new **orders** , **inventories** , vendor **deliveries** and employment. A sixth indicator, price of electronic materials, isn't factored into the index...

34/3,K/3 (Item 1 from file: 148)  
DIALOG(R) File 148:Gale Group Trade & Industry DB  
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09129714 SUPPLIER NUMBER: 18905142 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**ASU launches new Arizona Purchasing Managers' Index. (Arizona State University)**

Strozier, Yolanda D.

Arizona Business, v43, n9, p1(4)

Sep, 1996

ISSN: 0093-0717 LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 2035 LINE COUNT: 00170

... members of the purchasing management associations. The survey focuses on seven indicators, five of which - **delivery** times, purchased material inventory levels, new orders, **production** and employment - make up the composite index, which acts as a leading economic indicator.

Respondents...

...lower or the same as the previous month. Once a year the survey also queries **managers** on capital expenditures.

Movements in coincident economic indicators reflect the current state of the economy...

...now be expressed as a seasonally adjusted index much like the National Association of Purchasing **Managers** ' Index that is reported each month in

the national press. Expressing the results of the Arizona survey as a seasonally adjusted index allows for easier interpretation and more **direct** comparison to the National Purchasing **Managers** ' Index.

Seasonal adjustment factors take into account the effects of recurring variations from year to...

...many other situations including weather conditions, school vacations and other holidays. Analysis of the index **components** suggests that all of the **components** have significant seasonal patterns with the exception of delivery times.

#### COMPARISON TO THE NATIONAL PURCHASING **MANAGERS** ' INDEX

The Arizona Purchasing **Managers** ' Index surveys a broad spectrum of industries, while the National Association of Purchasing **Management** surveys only manufacturing companies across the country.

The National Purchasing **Managers** ' Index is a composite index based on seasonally adjusted diffusion indexes for five indicators (new **orders** , **production** , supplier deliveries, **inventories** and employment) with varying weights. Diffusion indexes have the properties of leading indicators and provide...

34/3,K/4 (Item 2 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB  
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09023360 SUPPLIER NUMBER: 18763252 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**PeopleSoft Debuts Manufacturing Software; Function-Rich ERP Solution  
Delivers Real-Time Planning and Embedded Workflow.**

Business Wire, p10151062

Oct 15, 1996

LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 1495 LINE COUNT: 00146

... one system. Additional features include serial and lot number tracking, subcontracting support, automatic conversion of **planned** orders to production, automatic conversion of configured orders to **production** , **production** maintenance through PS/nVision, rework **production** , cancellation of **production** before it begins, **production** documents including component, operation, and dispatch **lists** , and automatic notification of **production** replenishment.

-- PeopleSoft Cost Management

PeopleSoft Cost Management provides the control and flexibility for companies to **manage** costs throughout the supply chain. It supports multiple methods of costing (standard, actual, weighted average...

...performing reevaluations, charging actual labor to work orders, and performing cost simulations. This application includes **inventory** accounting functionality that enables definition of **inventory** accounts for storage and **production** areas, associate raw materials, work in process and finished goods accounts with storage locations, allows...

34/3,K/5 (Item 3 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB  
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08584883 SUPPLIER NUMBER: 18173726 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Arizona Leading Index down slightly in November. (1995)**

Clark, Tracy L.

Arizona Business, v43, n2, p11(1)

Feb, 1996

ISSN: 0093-0717 LANGUAGE: English RECORD TYPE: Fulltext; Abstract

WORD COUNT: 495 LINE COUNT: 00054

Sensitive materials prices, **delivery** times, **inventories** , new **orders** and **production** were negative influences. Employment from the purchasing **managers** survey, the inflation-adjusted value of Maricopa

County building permits, the real money supply (M2...

...of resources at the U.S. Department of Commerce.

TABLE 1

NET CONTRIBUTION OF INDIVIDUAL COMPONENTS TO THE ARIZONA INDEX  
OF LEADING ECONOMIC INDICATORS

Net Contributions(\*\*)

	Aug.	Sept.	Oct.
Nov.			
<b>Delivery</b> Time(*)	.06	.01	.05
-.12			
<b>Inventory</b> Levels(*)	-.07	.21	-.08
-.08			
<b>New Orders</b> (*)	.08	.00	.14
-.07			
<b>Production</b> (*)	.08	.00	.14
-.07			
<b>Employment</b> (*)	.12	.17	-.03
-.04			
Residential Building Permits	.14	.14	.08...

34/3,K/6 (Item 4 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB

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08514568 SUPPLIER NUMBER: 18028285 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Distribution: the next battle ground. (retail distribution; automobiles) (Column)**

Keller, Maryann

Automotive Industries, v176, n2, p17(1)

Feb, 1996

DOCUMENT TYPE: Column ISSN: 0273-656X LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 646 LINE COUNT: 00055

... needed to clear out dealer stock. hi addition, two to three months between order and **delivery** result in high in-process **inventory** .

By cutting time between **order** and **delivery** , **Parts production** and vehicle assembly **schedules** would reflect true demand. Marketing cost would be lower, dealers would carry lower stocks and...

34/3,K/7 (Item 5 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB

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07753639 SUPPLIER NUMBER: 16749679 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Plastic optics shine in high-volume production: advances in materials and molding technology afford new efficiencies for lens builders.**

Clark, Douglas G.; Cohen, Lori A.

Photonics Spectra, v29, n3, p97(4)

March, 1995

ISSN: 0731-1230 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

WORD COUNT: 1532 LINE COUNT: 00127

... robotic handling to remove parts from the mold, can help achieve this.

Routine maintenance of **production** molds is an integral **part** of high-volume life. Especially in areas where **inventory** levels are minimized by "make-to-**order** " **planning** , molds must be **ready** to run, and run with their full complement of cavities, as production plans dictate. Scheduled...

34/3,K/8 (Item 6 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB

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07244850 SUPPLIER NUMBER: 15395469 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Arizona Leading Index strongly positive in December. (1993)**  
Clark, Tracy L.  
Arizona Business, v41, n3, p7(1)  
March, 1994  
ISSN: 0093-0717 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 526 LINE COUNT: 00054

Maricopa County residential building permits, **inventories**, **production**, sensitive materials prices, new orders and delivery times were positive influences. Employment from the purchasing **managers** survey and the real money supply (M2) were negative influences. Hours worked in manufacturing were unchanged.

NET CONTRIBUTION OF INDIVIDUAL COMPONENTS  
TO THE ARIZONA INDEX OF LEADING  
ECONOMIC INDICATORS

	Net Contribution(**)			
	Sept.	Oct.	Nov.	Dec.
Delivery Time(*)	-.03	.15	-.08	.10
<b>Inventory</b> Levels(*)	.02	.02	.05	.18
New Orders(*)	-.14	.09	.07	.17
<b>Production</b> (*)	-.04	-.01	.10	.18
Employment(*)	.10	-.23	.23	-.03
Residential Building Permits	.32	-.01	.12...	

...02

Change in Sensitive Materials Prices	.01	.10	.11	.18
--------------------------------------	-----	-----	-----	-----

\*\* The net contribution of each **component** is calculated by multiplying the monthly percent change in its index by its relative importance.

\* Based on indicators from the Purchasing **Management** Association of Arizona, Purchasing **Management** Association of Southern Arizona, and the Northern Arizona Group.

Source: Economic Outlook Center, L. William...

...hours worked in manufacturing, which are very high.

The seasonally adjusted indicators from the purchasing **managers** survey were positive in December except for employment. The absence of a clear **direction** in the employment indicator is somewhat puzzling, given the employment gains seen in 1993, particularly in manufacturing. There has also been a lack of **direction** from the delivery time indicator, which has been up and down for some time. The signal from new orders **production** and **inventories** has been more clearly positive.

The money supply figures, on the up-swing early in...

34/3,K/9 (Item 7 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2000 The Gale Group. All rts. reserv.

07213005 SUPPLIER NUMBER: 15198406 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Boeing steps into future through 'door project.'** (Boeing Co.'s program to change its production culture)  
Wilhelm, Steve  
Puget Sound Business Journal, v14, n39, p1(2)  
Feb 11, 1994  
ISSN: 8750-7757 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
WORD COUNT: 1875 LINE COUNT: 00138

... cases by returning the backlog of parts to the appropriate suppliers.

The problem of huge **parts inventories** still plagues most Boeing divisions. It was born of a time when **production** was much less integrated with other Boeing activities, and when Boeing Materiale was a fiefdom whose primary goal was to make sure the **plane** -maker didn't run out of **parts** .

"Ten years ago, inventory was good, because nobody measured it, and you didn't have...

...are the crux of the Japanese "kanban" system the door project is using to control **parts** movement. Kanban, which essentially means "visual signal," refers to the use of simple cues to keep **parts** and assemblies flowing, the essence of "pull systems" of **inventory** and **production** .

Under kanban, the only order form needed for more **parts** is an empty box. When the box arrives with its kit of **parts** , it is emptied to make a door. Then the box is sent back to Auburn to be refilled. When the box arrives at the Auburn sheet metal **plant** it's quickly reloaded and sent back to Renton. It's as simple as that...

...Bartelson said. "There's no place to physically set it anymore."

This idea of "pulling" **inventory** from the point of use also is being used in **production** of the doors. Workers at the tight semi-circle of seven work stations, all within...

34/3,K/10 (Item 8 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB

(c)2000 The Gale Group. All rts. reserv.

06758459 SUPPLIER NUMBER: 14668801 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**NOVEMBER SIGNALS WEAKENED MANUFACTURING FORECAST**

PR Newswire, p1129DC020

Nov 29, 1993

LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

WORD COUNT: 377 LINE COUNT: 00031

... 55.6. (The future component consists of durable goods new orders -- excluding aircraft and defense -- **production plans** , unfilled **orders** , ratio of actual-to-desired **inventory** /sales ratio).

"The key finding this month is that **production** will rise at a slower rate in early 1994," reports economist Michael Evans, creator of the index. He cited as reasons: a) a slow down in the growth in new **orders** and a **stop** in the rise of unfilled **orders** ; and b) a rise in inventory stocks for the first time since February -- now near desired levels.

"Earlier this year, reversals in this (futures) **component** proved to be useful predictors of short-term trends," said Evans. "The decline in February...

...Sept. 29 (after nearly a year of testing) by Michael Evans and Donald Ledwig, executive **director** of APICS, a not-for-profit, 70,000-member educational society of manufacturing professionals. For...

...703-237-8344, ext. 271.

-0- 11/29/93

/CONTACT: Barbara Gleason of the American **Production** and **Inventory** Control Society, 703-237-8344, ext. 271, or 703-750-6620 (evenings)/  
CO: American Production...

34/3,K/11 (Item 9 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB

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06519882 SUPPLIER NUMBER: 13823203 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**The shared cataloging system of the Ohio College Library Center. (reprinted from September 1972 Journal of Library Automation) (Silver Anniversary**

**Issue)**

Kilgour, Frederick G.; Long, Philip L.; Landgraf, Alan L.; Wyckoff, John A.  
Information Technology and Libraries, v12, n1, p113(20)  
March, 1993  
ISSN: 0730-9295      LANGUAGE: ENGLISH      RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 11093      LINE COUNT: 00857

... contains the same pointer to the bibliographic record.

When a bibliographic record is used for **catalog** card **production**, an entry is made in the holdings file. When the first holdings entry is made...

...of available disk area need be reserved for growth of these large sequential files. Disk **units** can be added as needed. Each fixed-length record in the scatter-store files is...of the list of holdings for the record. In addition, each record has a small **directory** for the construction of truncated author-title-date entries, which are displayed to allow a...in the LC card number index. The three leftmost bytes in the LC card number **section** contain an alphabetic prefix to a number where this is present, or, more usually, three...

...online application program is CATALOG (CAT); its functions are described in detail in the subsequent **sections** entitled "Cataloging with Existing Bibliographic Information" and "Input Cataloging." In general, CAT accepts requests from...memory image of the record onto a tape to be used as input to the **catalog** card **production** programs.

The **catalog** card **production** programs operate off-line, and the first processing program is CNVERT (CNVT), which formats some...

...into the total number of card images corresponding to the total cards required by the **requesting** library for each particular title. FORMAT determines this total from the number of tracings and...

...an extensive revisdon of EXPAND, contains many options not found in the old off-line **catalog** card **production** system. FORMAT can set up a contents note on any particular card, and puts tracings...

**34/3,K/12**      (Item 10 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2000 The Gale Group. All rts. reserv.

06089862      SUPPLIER NUMBER: 12350432      (USE FORMAT 7 OR 9 FOR FULL TEXT)

**How to find a postal pro. (postal experts)**

Maciejewski, Jeffrey  
Catalog Age, v9, n7, p113(2)  
July, 1992

ISSN: 0740-3119      LANGUAGE: ENGLISH      RECORD TYPE: FULLTEXT  
WORD COUNT: 2232      LINE COUNT: 00181

... to look, you need to know what qualities to look for in a potential partner.

**Production** proficiency

For one, a postal expert must have a thorough understanding of **catalog** production. Though actual hands-on training with every portion of the print **production** process isn't a prerequisite, your postal expert should be familiar with the key steps of **catalog** **production** and, most important, how print **production** is handled by your own operation. For example, if you require the use of specialized...

...those requirements before your job goes on press.

In addition to being proficient in actual **catalog** **production**, your postal expert should understand postal rate dynamics and how mailpiece quantity affects postal discounts...

...mail makeup requirements will affect postal costs and any resulting savings from using these techniques.



### List wizardry

In tandem with an education in **catalog production**, your postal expert should be well-versed in mailing **list** management and **list preparation**. It's critical that he or she understand which list services you require and how...

### 34/3,K/13 (Item 11 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB  
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05776861 SUPPLIER NUMBER: 11824292 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**The 4th class transformation. (fourth class mailings)**  
Maciejewski, Jeffrey  
Catalog Age, v9, n2, p69(3)  
Feb, 1992  
ISSN: 0740-3119 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
WORD COUNT: 1845 LINE COUNT: 00142

... lists for fourth class mailing, and service bureaus may require up to two weeks to **prepare** a mailing **list** for **production**. This, together with finishing slowdowns, may require that you expand your **production schedule** in **order** to accommodate the intensified work.

It's not often that savings opportunities are available to...

...major alternations - changing a book's trim size, a drop date or a proven marketing **plan**, for example. A switch to fourth class mailing is one sure-fire way to cut...

...of-hand can do.

The front end of fourth class mailing

To effectively transform a **portion** of your mailing to fourth class, your first big challenge is creating and building bundles of catalogs. Although postal regulations allow you to **send** two or three catalogs as a bundle to one address, binding and stitching lines may...

...service bureau can easily handle all of these reports for you.

Jeffrey Maciejewski specializes in **catalog production** and distribution at **catalog printer Quad/Graphics' Sussex, WI, plant**.

### 34/3,K/14 (Item 12 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB  
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04885128 SUPPLIER NUMBER: 09677765 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Electronic industry: EBN's QUEST Index shows business activity fell 2.1 points in November; "pervasive pessimism." (Electronic Buyers' News)**  
EDGE: Work-Group Computing Report, v1, n29, p15(1)  
Dec 10, 1990  
LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
WORD COUNT: 376 LINE COUNT: 00030

... to outperform the economy as a whole, as measured by the National Association of Purchasing **Management** index at 41.3.

The QUEST Index is based on five **components**: **production**, **new orders**, **inventories**, **vendor deliveries** and employment. Before being melded into the one composite figure, they are adjusted for seasonal...

### 34/3,K/15 (Item 13 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB  
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04828682 SUPPLIER NUMBER: 08901624 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Package shipping may benefit as economy slows. (demand for package shipping may increase as companies reduce inventories during hard economic times)**

Nelson, Eric  
San Francisco Business Times, v5, n5, p1(2)  
Oct 1, 1990  
ISSN: 0890-0337      LANGUAGE: ENGLISH      RECORD TYPE: FULLTEXT  
WORD COUNT: 1113      LINE COUNT: 00088

... in the economy as local firms order goods "just in time," instead of storing large **inventories** for uncertain **production** demands.

Despite national over-capacity, several major package delivery firms are opening new distribution facilities...

...hour.

"Long term, it will be our largest (facility in the Bay Area)," said project **manager** Dan Whitfield.

\* Aitborne Freight Corp., a Seattle-based overnight air express courier, is expanding its...

...continue to see demand for overnight service to grow," said Mike Hailey, Airborne's district **manager**. The company has grown at an annual rate of 30 percent.

The Dublin facility will...

...to meet a Santa Fe "rail head," allowing truck trailers to be loaded and unloaded **directly** at the facility by Santa Fe railroad.

"We use a lot of rail," said Whitfield...

...moved 1,300 packages a day. Today that figure stands at 3,000, said sales **manager** Boyle.

"People said that fax would cut into our business, but we're still moving..."

...to-Concord corridor and in the North and South Bays.

Curiously, the rise in package **delivery** may also reflect a decline in large **orders** because of the overall economic slowdown.

Manufacturers and retailers are hesitant to make big **orders** for **parts** and goods, so many are relying on a Japanese technique of inventory control.

"Kan-ban" -- or **ordering parts** and goods for **delivery** to the assembly line without warehousing -- has been translated here as "just-in-time." The system results in reduced **inventory** costs and speeds up **production** cycles.

Lloyd noted that U.S. transportation firms are currently seeing a 10 percent reduction...

34/3,K/16      (Item 14 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
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04818573      SUPPLIER NUMBER: 09333857      (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Small foundry can gain efficiency by computerizing operations. (part 1)**

Schmidt, David

Modern Casting, v80, n8, p34(3)

August, 1990

ISSN: 0026-7562      LANGUAGE: ENGLISH      RECORD TYPE: FULLTEXT

WORD COUNT: 1866      LINE COUNT: 00157

... does effectively is search, sort and do the calculations that are so pervasive in any **scheduling** activity.

Simple **Scheduling** - This produces a **listing** of **production** requirements for all **parts** on **order**, showing weekly quantities in **production** as a means of tracking on-time customer **delivery**.

Simple **scheduling** takes the computed production requirements for all parts and schedules the casting operation by subtracting...

34/3,K/17      (Item 15 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB  
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04151194 SUPPLIER NUMBER: 08169783 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Control-sensor ties enhance flexibility; drive towards smaller, varied lot sizes spurred by just-in-time manufacturing. (Manufacturing Management: Machine Tool Technology - Punching/Pressing)**  
Stern, Bob  
Metalworking News, v16, n760, p17(2)  
Nov 13, 1989  
ISSN: 0891-4036 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
WORD COUNT: 1023 LINE COUNT: 00081

... quality parts.

The drive to smaller lot sizes is being spurred by just in time **manufacturing** requirements, press makers said. Instead of building large **inventories** of **parts**, factories are placing smaller **orders** with **deliveries** timed to coincide with **production** demands.

"Lot sizes are getting smaller," Jerry Rush sales and marketing **director** at U.S. Amada Ltd. Buena Park, Calif., confirmed. "Customers also are demanding more variation..."

**34/3,K/18 (Item 16 from file: 148)**  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
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01888566 SUPPLIER NUMBER: 02829553 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Supplier outlook: the best is yet to be.**  
Spinella, Arthur M.; Koch, Barbara A.  
Ward's Auto World, v19, p41(5)  
July, 1983  
ISSN: 0043-0315 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 2717 LINE COUNT: 00221

... 45.) Steel

The steel industry was battered during 1982, and even with the auto industry **registering** a modest **production** -rate recovery during this year's first half, there was further erosion of steel's...

...a meaningful upturn in capital spending to return to decent profitability," he says. "That might **start** in the fourth quarter and should be better throughout next year. But what we don..."

...cannot be masked by strong auto sales. They range from import price competition to inefficient **plants**, high labor costs and insufficient capital to do much about them.

United States Steel Corp. tells WAW it intends to spend roughly \$700 million in its steel **segment** during 1983, up substantially from the \$441 million spent for **plant** and equipment improvements during 1982. But that corporation is the exception.

Bethlehem Steel Corp. is...Replying to a series of questions from WAW, U.S. Steel says: "The trend in **orders** has remained relatively constant during April and May, down from the peak experienced in late..."

...become and will (continue to) get tougher," says Mr. Luerksen, indicating a need for better **production** and **inventory** control.

Robert J. Darnall, Inland executive vice president, adds: "Our traditional approach in meeting such..."

**34/3,K/19 (Item 17 from file: 148)**  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
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01760263 SUPPLIER NUMBER: 02600984 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Capital offense. (Comserv, accounting, and the software business)**

Fingleton, Eammon  
Forbes, v131, p100(2)  
Jan 17, 1983

CODEN: FORBA      ISSN: 0015-6914      LANGUAGE: ENGLISH      RECORD TYPE:  
FULLTEXT  
WORD COUNT:    1212      LINE COUNT:    00092

... understand Comserv's products. They all stem from AMAPS, Comserv's Advanced Manufacturing, Accounting and **Production** System: This addresses the **planning** and control needs of **manufacturing** companies. It automates routine clerical tasks like **preparing** reports and **parts lists** and tracking **orders** , and it gives **management** better information on which to base **production schedules** and to control **inventory** . The system, which is now in place in about 300 locations in the U.S..

20/3,K/1 (Item 1 from file: 8)  
DIALOG(R)File 8:EI Compendex(R)  
(c) 2000 Engineering Info. Inc. All rts. reserv.

01939407 E.I. Monthly No: EI8601001217 E.I. Yearly No: EI86020723

**Title: COMPUTER INTEGRATED MANUFACTURING.**

Author: TEICHOLZ, ERIC

Corporate Source: GRAPHIC SYSTEMS INC, CAMBRIDGE, MA, USA

Source: DATAMATION V 30 N 3 MAR 1984 P 169-170, 172-174

Publication Year: 1984

CODEN: DTMNAT ISSN: 0011-6963

Language: ENGLISH



**Title: COMPUTER INTEGRATED MANUFACTURING.**

Abstract: COMPUTER INTEGRATED **MANUFACTURING** (CIM) TECHNOLOGY DEMONSTRATES THE GREATEST POTENTIAL FOR IMPROVING U. S. **MANUFACTURING PRODUCTIVITY** . THE OBJECTIVES OF CIM AND SOME OF THE BENEFITS ARE DISCUSSED. A CIM-CONTROLLED FACTORY IS DEPICTED WHERE MACHINES CREATE **PRODUCTS** UNDER THE **HIERARCHICAL** CONTROL OF COMPUTER **NETWORKS** THAT OPTIMIZE **PRODUCTION** FLOW AND **SCHEDULING** . AFTER EXECUTING THEIR RESPECTIVE TASKS, ALL MACHINES REPORT ON WORK AND OPERATING STATUS, CURRENT STATE...

...AND ADMINISTRATIVE DATA. CURRENT APPLICATIONS INVOLVING CIM TECHNOLOGY INCLUDE ONE OR MORE OF THE FOLLOWING **MANUFACTURING FUNCTIONS** : VENDOR PROCUREMENT **SCHEDULES** , **PRODUCT PLANNING** AND **MANUFACTURING** , ORDER ENTRY AND **SCHEDULING** , MATERIAL REQUIREMENTS **PLANNING** (MRP), MATERIAL AND **STOCK INVENTORY** AND CONTROL, PERFORMANCE MEASUREMENT, COST CONTROL AND ACCOUNTING, QUALITY CONTROL, AND STATUS REPORTING.

Descriptors: COMPUTER AIDED **MANUFACTURING** ; CONTROL SYSTEMS, DIGITAL...

...CONTROL; **PRODUCTIVITY**

Identifiers: COMPUTER INTEGRATED **MANUFACTURING** (CIM); **MANUFACTURING PRODUCTIVITY**

20/3,K/2 (Item 1 from file: 94)  
DIALOG(R)File 94:JICST-Eplus  
(c)2000 Japan Science and Tech Corp(JST). All rts. reserv.

02347469 JICST ACCESSION NUMBER: 95A0519366 FILE SEGMENT: JICST-E

**A Logistic Navigation System.**

SHIMIZU HIDEAKI (1); BAN NORIO (1)

(1) Mitsubishi Electr. Corp.

Mitsubishi Denki Giho, 1995, VOL.69,NO.5, PAGE.512-517, FIG.6, REF.5

JOURNAL NUMBER: F0198AAP ISSN NO: 0369-2302 CODEN: MTDNA

UNIVERSAL DECIMAL CLASSIFICATION: 681.3.02:651.2 658.86/.87

LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Journal

ARTICLE TYPE: Commentary

MEDIA TYPE: Printed Publication

...ABSTRACT: Electric has developed an information system to support early recognition of market movements and efficient **production** , sales and distribution. The system is **hierarchical** in design, consisting of a mainframe host and a client-server **network** . End-user computing(EUC) is implemented using a commercial software package, reducing the development effort and simplifying future **functional** enhancements. The system has been introduced in several of the corporation's consumer-**product manufacturing plants** , where it has led to more efficient shipping operations, better **inventory** monitoring (therefore lowering **inventory** levels), better customer service and lower distribution costs. (author abst.)

...DESCRIPTORS: **management** information system...

...**inventory** control

...BROADER DESCRIPTORS: **management**

20/3,K/3 (Item 2 from file: 94)  
DIALOG(R)File 94:JICST-EPlus  
(c)2000 Japan Science and Tech Corp(JST). All rts. reserv.

01133749 JICST ACCESSION NUMBER: 90A0764799 FILE SEGMENT: JICST-E  
**Expert system in production line design.**  
FUJIMOTO HIDEO (1); YAMAMOTO HIDEHIKO (2)  
(1) Nagoya Inst. of Technology; (2) Toyoda Automatic Loom Works, Ltd.  
Interijento FA Shinpojiumu Koen Ronbunshu(Proceedings of Intelligent FA  
Symposium), 1989, VOL.2nd, PAGE.41-44, FIG.5  
JOURNAL NUMBER: X0767AAH  
UNIVERSAL DECIMAL CLASSIFICATION: 658.5  
LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan  
DOCUMENT TYPE: Conference Proceeding  
ARTICLE TYPE: Short Communication  
MEDIA TYPE: Printed Publication

**Expert system in production line design.**

**ABSTRACT:** This paper treats the expert system assisting the **planning** of the new machines introduction in a factory, which system is constructed of (1) the **hierarchical** knowledge represents the structure in three layers (2) the knowledge representation using the semantic **network** that a mechine type is divided by machanism and **function** in detail (3) the elimination reasoning method and the multiobjective evaluation reasoning (4) the hypothetical reasoning which can be considered the characteristic condition of **production** facility design. Through the application of this developed system to **production** line design of a shaft, system is ascertained to be usefull. (author abst.)

**DESCRIPTORS:** **production** line...

...**hierarchical** structure

**BROADER DESCRIPTORS:** **production** process...

...process(**production** ); ...

...**production** process(control...

...list processing language

20/3,K/4 (Item 1 from file: 34)  
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci  
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04878531 Genuine Article#: UN552 No. References: 31  
**Title: THE (Q,R) INVENTORY SYSTEM WITH AN UNRELIABLE SUPPLIER**  
Author(s): GUPTA D  
Corporate Source: MCMASTER UNIV,MICHAEL G DEGROOTE SCH BUSINESS,1280 MAIN  
ST W/HAMILTON/ON L8S 4M4/CANADA/  
Journal: INFOR, 1996, V34, N2 (MAY), P59-76  
ISSN: 0315-5986  
Language: ENGLISH Document Type: ARTICLE (Abstract Available)

**Title: THE (Q,R) INVENTORY SYSTEM WITH AN UNRELIABLE SUPPLIER**

...Abstract: having an unreliable supplier in a continuous review, fixed order quantity (Q) - reorder point (r) **inventory** system. We assume Poisson demand and exponentially distributed lengths of the supplier's on and...

...r) pair are developed and several numerical examples are solved.  
Computational results show the cost **function** to be well behaved and suggest that ignoring supply uncertainty or approximate modeling can be ...

Research Fronts: 94-0464 001 (PLANNING SYSTEMS; PARALLEL COMPUTERS;  
MARKOV DECISION-PROCESSES; EFFICIENCY OF **HIERARCHICAL**

PROBLEM-SOLVING; BOREL SPACES; AVERAGE OPTIMALITY)  
94-1296 001 (OPTIMAL REPLACEMENT POLICIES; MINIMAL REPAIR;  
DETERIORATING...

...SERIAL SYSTEMS; DYNAMIC LOT-SIZING PROBLEM; QUANTITY DISCOUNT MODEL;  
MINLP OPTIMIZATION; STOCHASTIC DEMAND; HEAT-EXCHANGER **NETWORKS** )  
94-2940 001 (DISTRIBUTED SYSTEMS; FINITE APPROXIMATIONS; LEADTIME  
UNCERTAINTY IN A SIMPLE STOCHASTIC **INVENTORY** MODEL)  
94-4950 001 (SERVER VACATIONS; WAITING TIME DISTRIBUTIONS IN A PRIORITY  
QUEUE; SINGLE-STAGE **MANUFACTURING** SYSTEM)

20/3,K/5 (Item 2 from file: 34)  
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci  
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04037607 Genuine Article#: QZ449 No. References: 21  
**Title:** HIERARCHICAL PRODUCTION MANAGEMENT APPLIED TO AN IRON AND  
**STEEL-INDUSTRY**  
Author(s): PORTMANN MC; ROHR D  
Corporate Source: ECOLE MINES, CRIN, CNRS, URA 262, PARC SAURUPT/F-54042  
NANCY//FRANCE/  
Journal: JOURNAL OF INTELLIGENT MANUFACTURING, 1995, V6, N2 (APR), P79-85  
ISSN: 0956-5515  
Language: ENGLISH Document Type: ARTICLE (Abstract Available)

**Title:** HIERARCHICAL PRODUCTION MANAGEMENT APPLIED TO AN IRON AND  
**STEEL-INDUSTRY**  
Abstract: A **scheduling** problem arising in the iron and steel industry is  
discussed. It concerns the medium **planning** and the short-term  
**scheduling** of three tools: continuous-casting, strip mill and  
finishing, these three belonging to the hot...

...is called the upstream tool and the finishing tool is called the  
downstream tool. A **hierarchical** approach consisting of two levels is  
designed. At each level of this **hierarchy**, the pivot is **scheduled**  
first followed by the other tools under the constraints of the pivot  
**schedule**. Methods are proposed to solve **scheduling** problems arising  
from this approach. Each of the methods is an approximation scheme  
because of the NP-hardness of the **scheduling** problems. Some of the  
approximation schemes are local search methods (simulated annealing  
improved by some...

...specific constructive methods built to solve given problems. An  
interesting criterion is the following: the **schedule** of the pivot  
being given, the **schedule** of the upstream tool must begin as late as  
possible and the **schedule** of the downstream must end as soon as  
possible in order to minimize the **inventory** cost between the tools  
while minimizing the other costs of **manufacturing** such as the number  
of profile changes, the number of block changes, etc. The pivot...

Research Fronts: 93-0013 001 (SIMULATED ANNEALING; OBJECTIVE **FUNCTION**  
IN STOCHASTIC COMBINATORIAL OPTIMIZATION; COMPARISON OF 3 NEURAL  
**NETWORK** LEARNING ALGORITHMS)

20/3,K/6 (Item 3 from file: 34)  
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci  
(c) 2000 Inst for Sci Info. All rts. reserv.

03939336 Genuine Article#: QT595 No. References: 47  
**Title:** LOT-SIZING IN CAPACITATED PRODUCTION PLANNING AND  
**CONTROL-SYSTEMS**  
Author(s): HELBER S  
Corporate Source: UNIV MUNICH, INST PROD WIRTSCHAFT & CONTROLLING/D-80802  
MUNICH//GERMANY/  
Journal: OR SPEKTRUM, 1995, V17, N1 (MAR), P5-18  
ISSN: 0171-6468

**Title: LOT-SIZING IN CAPACITATED PRODUCTION PLANNING AND CONTROL-SYSTEMS**

Abstract: Current **production planning** and control (PPC) systems often separate material requirements from capacity **planning**. As a result, practitioners often complain about the infeasibility of **production schedules** regarding capacity, which causes long and unpredictable lead times and poor customers service. This paper describes a **hierarchically** structured PPC system that explicitly considers **production** capacity at each stage of the **planning** process. The impact of the certainty of demand data on the integration of lot sizing

...

...available solution procedures are discussed and compared that support lot sizing decisions in multi-level **production** systems subject to multiple capacity constraints, setup times and dynamic demand rates.

Research Fronts: 93-0013 003 (SIMULATED ANNEALING; OBJECTIVE **FUNCTION** IN STOCHASTIC COMBINATORIAL OPTIMIZATION; COMPARISON OF 3 NEURAL **NETWORK** LEARNING ALGORITHMS)

93-0290 002 (GENETIC ALGORITHMS; ECHELON **STOCK** POLICIES FOR MULTILEVEL **INVENTORY** CONTROL; BOUNDED SPLIT DELIVERY VEHICLE-ROUTING PROBLEM)

93-6207 001 (FLEXIBLE **MANUFACTURING** SYSTEMS; CAPACITY REQUIREMENTS **PLANNING**; SETUP REDUCTION; ASSEMBLY LINES)

93-6552 001 (STOCHASTIC OPTIMIZATION; GENETIC ALGORITHMS; ARTIFICIAL **NEURAL NETWORKS**; EVOLUTION STRATEGY; PROTEIN SEQUENCES)

20/3,K/7 (Item 4 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

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01678010 Genuine Article#: HR293 No. References: 47

**Title: USING ARTIFICIAL-INTELLIGENCE TECHNOLOGIES IN PRODUCTION MANAGEMENT**

Author(s): HYNYNEN J

Corporate Source: NOKIA RES CTR/SF-02101 ESPOO//FINLAND/

Journal: COMPUTERS IN INDUSTRY, 1992, V19, N1 (APR), P21-35

Language: ENGLISH Document Type: ARTICLE (Abstract Available)

**Title: USING ARTIFICIAL-INTELLIGENCE TECHNOLOGIES IN PRODUCTION MANAGEMENT**

...Abstract: state-of-the-art, and future developments in using artificial intelligence technologies to support various **production management functions** in an industrial company. As opposed to the traditional approach on the subject where technologies are **listed** and suitable problems are matched against them, the paper focuses on the subject the other way round: Expected trends and transitions of modern factory **management** are explored and new areas of emphasis in controlling a **manufacturing** enterprise are postulated. Also, **production management** as a problem solving discipline is analyzed and its specific features highlighted. These visions are then projected against the current state of affairs in industrial AI applications and potential **directions** for short- and medium-run research and development are given. It is claimed that-taken the highly dynamic and distributed **manufacturing** environment-the soon-to-emerge concept of a **product** -oriented, **distributed**, and human-centered **computer** integrated **manufacturing** system can greatly benefit from-and in some cases depends on-the ability to model heuristic problem solving, heterogeneous **domain** knowledge, and object-oriented, decentralized activity coordination. All these areas are essentially being developed within...

Research Fronts: 90-1576 001 (SINGLE-MACHINE **SCHEDULING**; FLEXIBLE **MANUFACTURING** SYSTEMS; LARGE CLOSED QUEUING-**NETWORKS**; STOCHASTIC PETRI NETS)

90-5456 001 (CONNECTIONIST MODELS OF RECOGNITION MEMORY; NEURAL **NETWORKS**; THEORETICAL PSYCHOLOGY)



20/3,K/8 (Item 1 from file: 35)  
DIALOG(R) File 35:DISSERTATION ABSTRACTS ONLINE  
(c) 2000 UMI. All rts. reserv.

918155 ORDER NO: AAD86-11463

**DECISION SUPPORT SYSTEM FOR CAPACITY PLANNING AND OPERATIONAL DESIGN (**  
**PRODUCTION, SCHEDULING, MANAGEMENT)**

Author: PATI, MAHESH CHANDRA

Degree: PH.D.

Year: 1986

Corporate Source/Institution: CASE WESTERN RESERVE UNIVERSITY (0042)

Source: VOLUME 47/03-B OF DISSERTATION ABSTRACTS INTERNATIONAL.

PAGE 1252. 156 PAGES

**DECISION SUPPORT SYSTEM FOR CAPACITY PLANNING AND OPERATIONAL DESIGN (**  
**PRODUCTION, SCHEDULING, MANAGEMENT)**

...purpose of this dissertation was to provide a decision support system to address the capacity **planning** and operational design issues of a multi-**product**, multi-family, multi-stage serial flow **production** line. The existing algorithms find **production schedules** either for a single **product** case or for a multi-**product**, single family **manufacturing** system of only one stage. The latter problem is an NP complete problem.

The model developed in this thesis is called the **Manufacturing Analysis System (MAS)**. MAS determines a feasible **schedule** that will minimize the total setup and **inventory** holding costs which should be close to the optional **schedule**. The Extended Basic Period (EBP) approach is used to determine a feasible **schedule**. With this approach, **product** cycle lengths are expressed as integer multiples (cycle multipliers) of a reference cycle length, called the Rotational Cycle. The **product** of the least common multiplier of the cycle multipliers and the rotational cycle length is...

...number of possible combinations for a multi-stage problem is infinite.

Properties of an optimal **schedule** were determined which showed that the horizons for each of the stages were equal. These properties also reduced the number of possible choices of **schedule** from an infinite set to a finite set. Further theoretical development reduced the maximum number of enumerations required per **product** from a polynomial **function** to a linear **function** in the number of stages. However, the theoretical work was developed in such a way as to recognize the realities of **manufacturing** environments.

A **hierarchical** formulation was developed which, along with the other theoretical work, made the model computationally feasible. This model was used to determine the **schedule**, after which a Closed Queue **Network** model analyzes the shop dynamics.

MAS was validated by comparing the results of a multi-**product**, single family and single stage problem against that of the existing algorithms designed specifically for...

20/3,K/9 (Item 2 from file: 35)  
DIALOG(R) File 35:DISSERTATION ABSTRACTS ONLINE  
(c) 2000 UMI. All rts. reserv.

846625 ORDER NO: AAD84-13286

**DESIGN OF A HIERARCHICAL PRODUCTION PLANNING AND INVENTORY CONTROL**  
**SYSTEM FOR A CONSUMER PRODUCTS MANUFACTURING NETWORK**

Author: DE GUIA, ARTHUR ARAUJO

Degree: D.ENG.

Year: 1983

Corporate Source/Institution: UNIVERSITY OF CALIFORNIA, BERKELEY (0028)

Source: VOLUME 45/03-B OF DISSERTATION ABSTRACTS INTERNATIONAL.

✓ (2)

**DESIGN OF A HIERARCHICAL PRODUCTION PLANNING AND INVENTORY CONTROL  
SYSTEM FOR A CONSUMER PRODUCTS MANUFACTURING NETWORK**

This thesis details the design of a **hierarchical production planning and inventory** control system for a Fortune 500 firm operating in the consumer **products** sector. The goal of this research is to design an effective, feasible and practical system...

...vast majority of the works emphasize the analysis and solution of simplistic, abstract models of **production** systems to the exclusion of serious discussions on application. Practical issues on systems development and...

...objective, the salient aspects of the firm necessary to undertake a meaningful analysis of the **planning** system are described. The firm is characterized by batch-type single stage **manufacturing** processes, nested in distribution and marketing **networks**. Further, the current practices of **planning** are investigated and evaluated.

The major design issues which are addressed include: (1) The systematic partitioning of the **planning** process into problems or modules from three different design perspectives: (a) Organizational structure of the firm; (b) Nature of the **product** structure; (c) **Functional** purposes of **inventories**. (2) The mechanisms which are used to link the **hierarchical** modules. Modeling considerations which are discussed include the appropriate time grids and **planning** horizons for tactical and operational **planning**, procedures for aggregation and disaggregation, treatment of uncertainties and implementation of the proposed system. (3...

...procedures of the integrated system.

This thesis proposes mathematical models which support tactical and operational **planning**. A linear programming model is formulated which specifies the monthly assignment of sales territories to **production** sources and the required **inventory** buildups and capacity supplements. It is shown how these **plans** are translated into operational inputs through **product** structure and time period disaggregation techniques. These linkages support the use of a heuristic procedure for packaging line **scheduling**. In addition, an item ordering procedure is proposed for replenishment of distribution centers.

To properly implement these models, methods of estimating parameters from actual **production** and shipment data are proposed. Techniques are demonstrated which enable the formulation of tactical models

27/3,K/1 (Item 1 from file: 8)  
DIALOG(R)File 8:EI Compendex(R)  
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04510895 E.I. No: EIP96103351065

**Title: Chains of trust**

Author: Scott, R.M.

Corporate Source: CJ Fox & Sons Ltd, West Sussex, Engl

Source: Manufacturing Engineer v 75 n 4 Aug 1996. p 172-174

Publication Year: 1996

CODEN: MNFEES ISSN: 0956-9944

Language: English

Descriptors: Manufacture; Just in time **production** ; **Inventory** control;  
Purchasing; **Computer** applications; **Distribution** of goods; Aircraft  
parts and equipment; Planning

Identifiers: **Manufacturing** operations; Supply **management** system;  
Original equipment **manufacturers** ; Suppliers; **Unit** price; Total **parts**  
**management** service; Order processing; Replenishment of consignment **stock**  
; Kawasaki **production** system; Cross functional teams

27/3,K/2 (Item 2 from file: 8)  
DIALOG(R)File 8:EI Compendex(R)  
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03811527 E.I. No: EIP94021221110

**Title: Execution systems: how to integrate with MRP II**

Author: Lankford, Ray

Corporate Source: Manufacturing Management Systems, Inc, Kingwood, TX,  
USA

Conference Title: Proceedings of the 36th International Conference

Conference Location: San Antonio, TX, USA Conference Date:  
19931010-19931015

E.I. Conference No.: 19941

Source: Annual International Conference Proceedings - American Production  
and Inventory Control Society 1993. Publ by APICS, Falls Church, VA, USA. p  
482-483

Publication Year: 1993

CODEN: AICSEO

Language: English

Abstract: State-of-the-art systems controlling execution of **production**  
activities are now being integrated with the planning processes of MRP II  
through a 3...

...Planning Systems, Manufacturing Execution Systems (MES), and Control  
Systems. This provides the management of actual **product** manufacture while  
facilitating integration of manufacturing information between the three  
layers and any integrated MES...

...One powerful execution system currently used as an MRP II supplement is  
the Simulation-mode **Production** Scheduling. Through **networking** dependent  
relationships, it creates a computer simulation of the **manufacturing**  
process, showing the effect of **component** **schedules** on subassemblies and  
assemblies. The advance visibility of future **production** conditions would  
then facilitate the management of constraints and permit corrective action  
before schedule compliance is rendered impossible. This results in shorter  
lead times even in complex **production** environments, improving  
responsiveness to customer demands and the company's competitive advantage.

Descriptors: Computer integrated manufacturing; Computer applications;  
Management; Scheduling; **Production** control; Planning; **Inventory** control  
; Control systems; Computer simulation; User interfaces

Identifiers: Execution system; Manufacturing resource planning; Finite  
scheduling; Simulation scheduling; **Network** scheduling; Capacity  
management; **Production** status tracking

27/3,K/3 (Item 3 from file: 8)  
DIALOG(R)File 8:Ei Compendex(R)  
(c) 2000 Engineering Info. Inc. All rts. reserv.

03730075 E.I. No: EIP93081044419

**Title: Distributed production planning**

Author: Evers, J.J.M.

Corporate Source: Delft Univ of Technology, Delft, Neth

Source: Delft Progress Report v 15 n 3-4 1991-1992. p 243-289

Publication Year: 1991-1992

CODEN: DPRED2 ISSN: 0304-985X

Language: English

**Title: Distributed production planning**

Abstract: The development of a generic planning support system for distribution **production** (DP) to cover several **production** plants, manufacture and delivery of **products**, transportation and storage demand and coordination to satisfy the sales program lead to a distributed **product** flow plan. This includes strategic and tactical planning problems.  
6 Refs.

Descriptors: Strategic **planning**; **Planning**; **Scheduling**; **Management**; **Inventory control**; Industrial **management**; Automobile **parts** and equipment; Forecasting; Industrial economics; **Production** control

Identifiers: Tactical planning; **Production** allocation plan; Supply distribution; Distribution **network**

27/3,K/4 (Item 4 from file: 8)  
DIALOG(R)File 8:Ei Compendex(R)  
(c) 2000 Engineering Info. Inc. All rts. reserv.

03068599 E.I. Monthly No: EI9106065896

**Title: Material planning issues in surface mount manufacturing.**

Author: Thompson, Michael C.

Corporate Source: MGTV Manufacturing Inc, Madison, AL, USA

Source: Surface Mount Technology v 4 n 10 Oct 1990 p 40-41

Publication Year: 1990

CODEN: SMTEEL ISSN: 0893-3588

Language: English

Abstract: Material **planning** has become an integral **part** of the electronics **manufacturing** industry. An increasing demand for flexibility and reaction has been generated by the complexities of...

...design changes. Rapidly changing manufacturing equipment and processes, such as surface mount technology, have further **added** to increased manufacturing skill sets and business tools required to be successful. Material requirements planning...

...a major business, manufacturing, and materials planning tool for the 90s which schedules material in **order** to meet the time frame **prepared** by the master scheduler. The material issues created by surface mount manufacturing must then be...

27/3,K/5 (Item 5 from file: 8)  
DIALOG(R)File 8:Ei Compendex(R)  
(c) 2000 Engineering Info. Inc. All rts. reserv.

02938753 E.I. Monthly No: EI9008090877

**Title: 'Batch size one' in miniature contactor production.**

Author: Hussmann, Wolfgang; Mau, Matthias

Corporate Source: Siemens AG, Amberg Components Plant, Amberg, West Ger

Source: Energy & Automation v 12 n 1 Jan-Feb 1990 p 24-25

Publication Year: 1990

CODEN: ENAUEV ISSN: 0931-6221

Language: English

...Abstract: reliability, for example, customers now also want 'customized' products, without sacrificing the advantages of short **delivery** times. At a new sub-facility at Cham in eastern Bavaria, Siemens' **Amberg Components Plant** satisfies these requirements using automated **production** procedures that include the logistics of **ordering** and contract processing right from the **start** . (Author abstract)

27/3,K/6 (Item 6 from file: 8)  
DIALOG(R)File 8:Ei Compendex(R)  
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02346889 E.I. Monthly No: EI8712124001

**Title: INDUSTRIAL ENGINEERING SPREADSHEET APPLICATIONS FROM A MANUFACTURING RESOURCE PLANNING (MRP-II) SYSTEM.**

Author: Fargher, John S. W. Jr.

Corporate Source: US Naval Air Rework Facility, Cherry Point, NC, USA

Source: Computers & Industrial Engineering v 13 1987, Proc of the 9th Annu Conf on Comput and Ind Eng, Atlanta, GA, USA, Mar 18-20 1987 p 100-106

Publication Year: 1987

CODEN: CINDDL ISSN: 0360-8352

Language: ENGLISH

Abstract: This paper describes the MRP-II and distributed **network** initiatives undertaken at the Naval Air Rework Facility, Cherry Point, in the development of modular, integrated database management systems for material **management** , financial **management** , workload and work-in-process control, **manufacturing scheduling** and control, and **inventory** and kitting of **parts** back to **production** . The local area **network** and workstations using Zenith 248 PCs and bar coding data entry are described. PC spreadsheet...

...Descriptors: Spreadsheet; **INVENTORY CONTROL**; **PRODUCTION CONTROL**; COMPUTER SOFTWARE

27/3,K/7 (Item 7 from file: 8)  
DIALOG(R)File 8:Ei Compendex(R)  
(c) 2000 Engineering Info. Inc. All rts. reserv.

02283886 E.I. Monthly No: EI8707069824

**Title: GETTING DOWN TO ONE-OFF PRODUCTION.**

Author: Rooks, Brian

Source: Industrial Robot v 11 n 2 Jun 1984 p 98-100

Publication Year: 1984

CODEN: IDRBAT ISSN: 0143-991X

Language: ENGLISH

...Abstract: operation at the BTR Silvertown plant in Burton-on-Trent in central England. It is **preparing** and coating a wide variety of metal plates which are components in rubber structural bearings...

...an area envelope of 590mm X 490mm they can pass through the system in random **order** and in any quantity - even in ones. And, that is just for starters. As experience with the cell **expands** , BTR plan to process other products in a variety of sizes and shapes. It will then be a truly flexible manufacturing cell. Author describes the BTR Silvertown **plant** and the **production** of **components** for structural bearings on a flexible coating cell.

27/3,K/8 (Item 8 from file: 8)  
DIALOG(R)File 8:Ei Compendex(R)  
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01894120 E.I. Monthly No: EIM8509-055688

**Title: PROCEEDINGS - 1984 NATIONAL MATERIAL HANDLING FORUM: ADVANCED TECHNOLOGIES EXPOSITION.**

Author: Anon

Conference Title: Proceedings - 1984 National Material Handling Forum: Advanced Technologies Exposition.

Conference Location: Houston, TX, USA Conference Date: 19840327

E.I. Conference No.: 05116

Source: Publ by Material Handling Inst Inc, Pittsburgh, PA, USA var pagings

Publication Year: 1984

Language: English

Abstract: This conference proceedings contains 31 papers. Various papers discuss: manufacturing environment; strategic **planning** : design specifications; computer integrated **manufacturing** projects; shipping distribution; storage/handling projects; flexible **manufacturing** ; small **parts** handling; carousel future; distribution systems; order picking economy; defense material **distribution** ; **computers** /software; flexible machining systems; financial considerations; international overview; simulation accuracy; automatic guided vehicle systems; just...

...Descriptors: Identification; **INVENTORY** CONTROL; **MARKETING**; **PRODUCTION** CONTROL; CONTROL SYSTEMS

27/3,K/9 (Item 9 from file: 8)

DIALOG(R)File 8:Ei Compendex(R)

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01027416 E.I. Monthly No: EI8106049661 E.I. Yearly No: EI81050171

**Title: OPTIMAL MULTI-LEVEL LOT SIZING FOR REQUIREMENTS PLANNING SYSTEMS.**

Author: Steinberg, Earle; Napier, H. Albert

Corporate Source: Univ of Houston, Tex

Source: Management Science v 26 n 12 Dec 1980 p 1258-1271

Publication Year: 1980

CODEN: MSCIAM ISSN: 0025-1909

Language: ENGLISH

Abstract: An optimal procedure is developed for the multi-period, multi-**product** , multi-level lot sizing problem by modeling the system as a constrained generalized **network** with fixed charge arcs and side constraints. The **network** permits us to relax some of the more restrictive assumptions of previous models such as those designed for **product** structures with single sources or successors. The solution to the resulting minimum cost flow problem yields optimal lot sizing decisions for all purchases as well as **manufactured** goods and **components** in all periods over a finite **planning** horizon. A simple illustration, beginning with a master **production** schedule and bills of material, illustrates the suitability of this approach for modeling complex requirements...

Descriptors: **INVENTORY** CONTROL

27/3,K/10 (Item 10 from file: 8)

DIALOG(R)File 8:Ei Compendex(R)

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00933819 E.I. Monthly No: EI8007051615 E.I. Yearly No: EI80028502

**Title: DESCRIPTION AND BIBLIOGRAPHY OF MAJOR ECONOMY-SECURITY FUNCTIONS**

-- 1. DESCRIPTIONS.

Author: Anon

Source: IEEE Power Eng Soc, Winter Meet, Prepr, New York, NY, Feb 3-8 1980 Publ by IEEE (Cat n CH1523-4/80) New York, NY, 1980 Pap F 80 169-3, 4  
P

Publication Year: 1980

Language: ENGLISH

...Abstract: 1959 to the present. An index is provided at the end of Part III, which **lists** papers in the category of each function contained in the

Bibliography. The functions described are: Modeling (**Network** , Resource); Real Time Operation; Dispatch (Economic, Environmental, Security); Operating Reserve Determination; Data Conditioning; Short Range Operations **Planning ; Scheduling** (**Production** , Hydro-Thermal, Hydro); Commitment ( **Unit** , Fuel Utilization or Resource); Interchange Evaluation; Long-Term Operations Planning: Scheduling (Hydro-thermal, Hydro, Maintenance); Planning (Interchange, Fuel); **Production** Costing (after the fact).

27/3,K/11 (Item 1 from file: 14)  
DIALOG(R)File 14:Mechanical Engineering Abs  
(c) 2000 Cambridge Sci Abs. All rts. reserv.

0237536 D90006446

**Try Contracted Line Delivery for inventory management**  
Singh, D.K.  
IBM Appl. Bus. Syst., USA  
IND. ENG. VOL. 22, NO. 2 pp. 47-48 1990  
Languages: ENGLISH

27/3,K/12 (Item 2 from file: 14)  
DIALOG(R)File 14:Mechanical Engineering Abs  
(c) 2000 Cambridge Sci Abs. All rts. reserv.

0143157 D83000189

**Managing the batch production shop by computer -- it's all a question of "architecture"**  
Anon.  
PRODUCT. ENGINEER VOL. 61, NO. 7-8 pp. 47-48 1982  
Languages: ENGLISH

27/3,K/13 (Item 1 from file: 94)  
DIALOG(R)File 94:JICST-EPlus  
(c)2000 Japan Science and Tech Corp(JST). All rts. reserv.

02784890 JICST ACCESSION NUMBER: 96A0140845 FILE SEGMENT: JICST-E  
**Trial production of a full-automatic system for the production of precision parts. Development of production information management network function. ( Sponsor : Small and Medium Enterprise Agency ).**  
YOSHIKAWA SHIZUO (1); GOTO EIJI (1); MIYADATE AKIRA (1); GOTO KIYOSHI (1); SASAKI OSAMU (1)  
(1) Totarushisutemu  
Seimitsu Buhin Seisaku no tameno Mujinka Shisutemu no Shisaku Kaihatsu Kenkyu Seika Hokokusho. Iwateken Chiiki Jinzai Busoku Taisaku Gijutsu Kaihatsu Jigyo. Heisei 7nen, 1995, PAGE.125-167, FIG.45, TBL.7, REF.12  
JOURNAL NUMBER: N19960049T  
UNIVERSAL DECIMAL CLASSIFICATION: 658.52  
LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan  
DOCUMENT TYPE: Journal  
ARTICLE TYPE: Original paper  
MEDIA TYPE: Printed Publication

**Trial production of a full-automatic system for the production of precision parts. Development of production information management network function. ( Sponsor : Small and Medium Enterprise Agency )....**  
...ABSTRACT: and small-sized enterprises was constructed, and a system which enables real-time control of **production** was experimentally manufactured.  
...DESCRIPTORS: **register** ; ...  
...**production** management  
...BROADER DESCRIPTORS: computer **network** ; ...  
...communication **network** ; ...

...information network ; ...

...network ;

27/3,K/14 (Item 2 from file: 94)  
DIALOG(R)File 94:JICST-EPlus  
(c)2000 Japan Science and Tech Corp(JST). All rts. reserv.

02342263 JICST ACCESSION NUMBER: 95A0231162 FILE SEGMENT: JICST-E  
**Special issue : Systematization of mold manufacturing. Centralized control of order receiving, shipment, drawings, parts, and processing information. Metal mold production management system "MS-1".**

SUGIE KOJI (1); OMATSU HIDEAKI (1)  
(1) Minoruta  
Purasuchikku Seikei Gijutsu, 1995, VOL.12,NO.2, PAGE.30-35, FIG.6  
JOURNAL NUMBER: L0455AAH ISSN NO: 0289-4556  
UNIVERSAL DECIMAL CLASSIFICATION: 66:658.51  
LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan  
DOCUMENT TYPE: Journal  
ARTICLE TYPE: Commentary  
MEDIA TYPE: Printed Publication

**Special issue : Systematization of mold manufacturing. Centralized control of order receiving, shipment, drawings, parts, and processing information. Metal mold production management system "MS-1".**

...ABSTRACT: analysis, and conducts the following : Registration of resources information ; registration of maintenance records, job load, **delivery** date, and received **order** of molds, registration of process design data of parts constituting a metal mold, scheduling **preparation** , periodical output of loading conditions, output of job instruction, input of the **start** and end of working, and progress control. All results are controlled as quantitative data, and...

27/3,K/15 (Item 3 from file: 94)  
DIALOG(R)File 94:JICST-EPlus  
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01241313 JICST ACCESSION NUMBER: 91A0417609 FILE SEGMENT: JICST-E  
**A study of optimal ordering quantity in an uncertainty situation Standardization and leadtime off-sets for parts and/or materials.** (3)  
NAKAGIRI DAIJU (1); KURIYAMA SENNOSUKE (2); NOSE TOYOKAZU (2)  
(1) Setsunan Univ.; (2) Osaka Inst. of Technology  
Nippon Keiei Kogakkaishi(Journal of Japan Industrial Management Association ), 1991, VOL.42,NO.1, PAGE.8-14, FIG.4, TBL.3, REF.7  
JOURNAL NUMBER: F0241BAL ISSN NO: 0386-4812  
UNIVERSAL DECIMAL CLASSIFICATION: 658.5  
LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan  
DOCUMENT TYPE: Journal  
ARTICLE TYPE: Original paper  
MEDIA TYPE: Printed Publication

**A study of optimal ordering quantity in an uncertainty situation Standardization and leadtime off-sets for parts and/or materials.**

ABSTRACT: In general, materials and **manufacturing** **plannings** are established under the assumption that the required **parts** and materials are **prepared** before **manufacturing** . For most cases, leadtime off-sets for **parts** and/or materials are created deterministically, but they are not reasonable. Therefore, in this paper...

...DESCRIPTORS: part **expansion** ; ...

...date of **delivery** ;



27/3,K/16 (Item 1 from file: 6)  
DIALOG(R)File 6:NTIS  
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1419050 NTIS Accession Number: AD-A201 859/6

**Data Administration for the Rapid Acquisition of Manufactured Parts**  
(Master's thesis)

Eads, C. T. ; Smith, P. A.  
Naval Postgraduate School, Monterey, CA.  
Corp. Source Codes: 019895000; 251450  
Sep 88 106p

Languages: English Document Type: Thesis

Journal Announcement: GRAI8909

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NTIS Prices: PC A06/MF A01

Descriptors: Computer aided **manufacturing** ; \*Data bases; \*Naval procurement; \*Spare **parts** ; \* **Management planning** and control; Acquisition; **Computer** programs; Theses; **Distribution** ; Environments; Heterogeneity; Naval **planning** ; **Parts** ; Lead time; **Manufacturing** ; Mechanical **components** ; Navy; Sharing; Data **management**

27/3,K/17 (Item 2 from file: 6)  
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1088235 NTIS Accession Number: AD-A136 873/7

**Multi-Period Repair Parts Inventory Model for a Naval Air Rework Facility**  
(Master's thesis)

Asselin, A. S.  
Naval Postgraduate School, Monterey, CA.  
Corp. Source Codes: 019895000; 251450  
Sep 83 71p

Languages: English Document Type: Thesis

Journal Announcement: GRAI8408

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NTIS Prices: PC A04/MF A01

**Multi-Period Repair Parts Inventory Model for a Naval Air Rework Facility**

...ready supply store (RSS) containing repair parts which are anticipated to be used during the **production** process has been established to support the Naval Air Rework Facility (NARF). While this supporting **inventory** was previously constructed using historical demand data, a single-period model and a two-period model have been proposed which compute **stock** levels based on quarterly **production** schedules. This thesis extends the use of the projected **production** information in calculating RSS **inventory** levels from two periods to multiple periods. The disadvantage of the single-period model is...

... on future schedules to behave more optimally. The multi-period model shows significant differences in **inventory** levels over the single-period model as a result of the added information. The multi...

Descriptors: **Inventory** control; \***Scheduling** ; \*Logistics **management** ; Optimization; Computer applications; Mathematical models; Data bases; **Production** ; Logistics **planning** ; Spare **parts** ; Aircraft equipment; Naval aircraft; Repair; **Network** flows; Supply depots; Naval shore facilities; Theses

Identifiers: RSS(Ready Supply Store); Naval Air rework facility;  
Multiperiod **inventory** models; NTISDODXA

27/3,K/18 (Item 1 from file: 34)  
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci  
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05394594 Genuine Article#: VV647 No. References: 9  
**Title: AI PLANNINGS STRONG SUIT**  
Author(s): SMITH SJJ; NAU D; THROOP T  
Corporate Source: UNIV MARYLAND/COLLEGE PK//MD/20742  
Journal: IEEE EXPERT-INTELLIGENT SYSTEMS & THEIR APPLICATIONS, 1996, V11,  
N6 (DEC), P4-5  
ISSN: 0885-9000  
Language: ENGLISH Document Type: ARTICLE (Abstract Available)

Abstract: Planning systems generate partially **ordered** sequences of actions (or plans) that solve a goal. They **start** from a specification of the valid actions (also called operators), which includes both the conditions...

...planning provides a way of specifying, as part of the operator definition, how to hierarchically **expand** actions into partially **ordered** sequences (task networks) of actions. This approach succeeds, in part, because it provides a natural...

...in 1997. Finally, Thomas Lee and David Wilkins described their use of SIPE-2 in **producing** military air campaign **plans**. Their **planner** is **part** of a demonstration system that is fully integrated with the other software modules currently used...

27/3,K/19 (Item 2 from file: 34)  
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci  
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04638466 Genuine Article#: TY593 No. References: 28  
**Title: A STATISTICAL-ANALYSIS OF YIELD LOSS IN MATERIAL REQUIREMENTS PLANNING SYSTEMS**  
Author(s): KURTULUS IS  
Corporate Source: VIRGINIA COMMONWEALTH UNIV,SCH BUSINESS ADM,1015 FLOYD AVE/RICHMOND//VA/23284  
Journal: PRODUCTION PLANNING & CONTROL, 1996, V7, N1 (JAN-FEB), P22-26  
ISSN: 0953-7287  
Language: ENGLISH Document Type: ARTICLE (Abstract Available)

...Abstract: of the research done on material requirements planning (MRP) systems it has been assumed that **production** and assembly operations incur no yield loss. This assumption has been dropped and performance of...

...has been tested in an MRP environment. Both the effect of the rules on the **component inventory**, and their ability to meet the master **production schedule** requirements have been analysed. An appropriate statistical design has been presented.

...Research Fronts: SERIAL SYSTEMS; DYNAMIC LOT-SIZING PROBLEM; QUANTITY DISCOUNT MODEL; MINLP OPTIMIZATION; STOCHASTIC DEMAND; HEAT-EXCHANGER NETWORKS )

27/3,K/20 (Item 3 from file: 34)  
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci  
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04425682 Genuine Article#: TC598 No. References: 9  
**Title: A SIMULATION-MODEL OF DRUM-BUFFER-ROPE FOR PRODUCTION PLANNING AND**

**CONTROL AT A NAVAL AVIATION DEPOT**

Author(s): GUIDE VDR

Corporate Source: USAF, INST TECHNOL, GRAD SCH LOGIST & ACQUISIT

MANAGEMENT, DEPT GRAD LOGIST MANAGEMENT/WRIGHT PATTERSON AFB//OH/45433

Journal: SIMULATION, 1995, V65, N3 (SEP), P157-168

ISSN: 0037-5497

Language: ENGLISH Document Type: ARTICLE (Abstract Available)

**Title: A SIMULATION-MODEL OF DRUM-BUFFER-ROPE FOR PRODUCTION PLANNING AND CONTROL AT A NAVAL AVIATION DEPOT**

...Abstract: paper describes a SLAM II-FORTRAN simulation model of Drum-buffer-rope (DBR) as a **production planning** and control methodology at the engine **component** division of a Naval Aviation Depot. The model represents all of the functional areas of remanufacturing facility (a total of 27 shops) required for the repair/overhaul of an aviation **component**, as well as DBR for **production planning** and control. The model allows for experimentation in a variety of areas, including setting buffer...  
...and capacity management. The model experiments indicate that DBR is an extremely robust method of **production** planning and control and that DBR leads to better performance to schedule, lower work-in-process **inventory** and improved use of present resources.  
...Research Fronts: DISCRETE EVENT SIMULATION; PERFORMANCE MANAGEMENT; LOW-COMPLEXITY MULTIPLE-ACCESS PROTOCOLS FOR WAVELENGTH-DIVISION MULTIPLEXED PHOTONIC **NETWORKS** )

27/3,K/21 (Item 4 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

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03731309 Genuine Article#: QB034 No. References: 6

**Title: MULTIMEDIA AND PRODUCTION MANAGEMENT-SYSTEMS**

Author(s): ELORANTA E; MANKKI J; KASVI JJJ

Corporate Source: HELSINKI UNIV TECHNOL, DEPT IND MANAGEMENT, IND PSYCHOL LAB, OTAKAARI 1/SF-02150 ESPOO//FINLAND/; DIALOGOS TEAM LTD/SF-02150 ESPOO//FINLAND/

Journal: PRODUCTION PLANNING & CONTROL, 1995, V6, N1 (JAN-FEB), P2-12

ISSN: 0953-7287

Language: ENGLISH Document Type: ARTICLE (Abstract Available)

**Title: MULTIMEDIA AND PRODUCTION MANAGEMENT-SYSTEMS**

Abstract: The future **production** control environment is a **network** of possibilities. Some of the **production** management will be automated with bar-codes, automatic data collection devices and **direct** communication links between the control system and **production** machines. Simultaneously, a growing **part** of **production management** systems turns towards human-oriented multimedia information processing, where a professional user is the key...

...maker. The communication environment plays a crucial role in this area. The two ends of **production** management systems will continue their polarization: there will be real decision-making with lots of...

...Multimedia workstations will not be everybody's tools. No actual benefits can be seen in **inventory** management or direct order handling. These tasks will continue their evolution towards automated routines. So far in **production** management, computers have primarily been used for computing.

27/3,K/22 (Item 5 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

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03281316 Genuine Article#: NT706 No. References: 12

**Title: AN ONLINE CONTROLLER FOR PRODUCTION SYSTEMS WITH SEASONAL DEMANDS**

Author(s): WANG PP; WILSON GR; ODREY NG  
Corporate Source: UNIV ALABAMA, DEPT MATH/TUSCALOOSA//AL/35487; LEHIGH  
UNIV, DEPT IND ENGN/BETHLEHEM//PA/18015  
Journal: COMPUTERS & INDUSTRIAL ENGINEERING, 1994, V26, N3 (JUL), P565-574  
ISSN: 0360-8352  
Language: ENGLISH Document Type: ARTICLE (Abstract Available)

**Title: AN ONLINE CONTROLLER FOR PRODUCTION SYSTEMS WITH SEASONAL DEMANDS**

Abstract: This paper investigates a hierarchical **production** planning and control model for flexible manufacturing systems that simultaneously make multiple parts subject to...

...and on-line control strategy is utilized in the aggregate planning model. First, the optimal **inventory** levels are determined by the off-line planning model. The problem is formulated as a boundary-free discrete optimal control problem. When the actual **inventory** levels deviate from the optimal levels due to random interruptions, an on-line control problem...

...boundary-fixed discrete optimal control problem. The resulting large-scale problem is broken into a **network** flow problem and several single **part** aggregate **production** planning problems. The **network** flow problem determines the alternative routings among cells for given **production** rates. Single **part** **production** planning problems determine the **production** rates for each **part** in each period. Numerical examples illustrate the algorithm's efficiency.

27/3,K/23 (Item 6 from file: 34)  
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci  
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03135842 Genuine Article#: NH601 No. References: 29

**Title: STABILITY AND PERFORMANCE OF DISTRIBUTED PRODUCTION CONTROL METHODS BASED ON CONTINUOUS-FLOW MODELS**

Author(s): SHARIFNIA A

Corporate Source: BOSTON UNIV, DEPT MFG ENGN/BOSTON//MA/02215

Journal: IEEE TRANSACTIONS ON AUTOMATIC CONTROL, 1994, V39, N4 (APR), P 725-737

ISSN: 0018-9286

Language: ENGLISH Document Type: ARTICLE (Abstract Available)

**Title: STABILITY AND PERFORMANCE OF DISTRIBUTED PRODUCTION CONTROL METHODS BASED ON CONTINUOUS-FLOW MODELS**

Abstract: We investigate the stability and performance of a two-level **production** control method for **part** release, routing, and machine **scheduling** in **manufacturing** systems. At the first level (off line), a continuous-flow (fluid) approximation of the **production** control problem is formulated and solved as a Linear Program. At the second level (on...

...is always stable. Simulation experiments show that near-zero work-in-process and finished-parts' **inventory** can be achieved with the method even for demands that are very close to the **production** capacity of the system.

...Research Fronts: MANUFACTURING SYSTEMS; ROUTING FLEXIBILITY ANALYSIS; SCHEDULING MODELS IN THE SEMICONDUCTOR INDUSTRY)

92-5687 001 (NEURAL **NETWORKS** ; NONHOMOGENEOUS MARKOV SYSTEMS; FINITE STATE VERIFIERS; EXISTENCE OF QUASI-STATIONARY DISTRIBUTIONS; INFINITE **PRODUCTS** ; LYAPUNOV EXPONENT)

27/3,K/24 (Item 7 from file: 34)  
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci  
(c) 2000 Inst for Sci Info. All rts. reserv.

02023880 Genuine Article#: JV460 No. References: 38

**Title: PROCEDURES TO DETERMINE PART MIX RATIOS FOR INDEPENDENT DEMANDS IN**

# **FLEXIBLE MANUFACTURING SYSTEMS**

Author(s): STECKE KE

Corporate Source: UNIV MICHIGAN, GRAD SCH BUSINESS ADM/ANN ARBOR//MI/48109

Journal: IEEE TRANSACTIONS ON ENGINEERING MANAGEMENT, 1992, V39, N4 (NOV), P359-369

ISSN: 0018-9391

Language: ENGLISH Document Type: ARTICLE (Abstract Available)

Abstract: Five **production** planning problems have been defined to address system setup decisions for flexible manufacturing systems (FMS...

...mix ratios at which a set of part types should be produced over the next **production** period. These ratios specify the relative numbers of parts of each part type that will...

...mix ratios. The following three complementary models are suggested: (1) a stochastic, multiclass, closed queueing **network** model, providing pessimistic, aggregate, and steady state performance evaluation results; (2) a deterministic, timed Petri...

...in determining appropriate part input sequences or they can be used to select the next **part** types for **production**. They can reduce subsequent **scheduling** problems by decreasing the set of feasible alternatives.

Another purpose of this paper is to...

...can be the basis of a new approach to operating an FMS in a more **productive** manner than usual. Computational tests reported indicate that the procedures suggested are fast and accurate...

...Identifiers--IN-PROCESS **INVENTORY** ; SIZES

Research Fronts: 90-1576 002 (SINGLE-MACHINE SCHEDULING; FLEXIBLE MANUFACTURING SYSTEMS; LARGE CLOSED QUEUEING-**NETWORKS** ; STOCHASTIC PETRI NETS)

27/3,K/25 (Item 8 from file: 34)

DIALOG(R) File 34:SciSearch(R) Cited Ref Sci

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00814537 Genuine Article#: EY963 No. References: 15

Title: **SYNCHRONIZING PRODUCTION AND TRANSPORTATION SCHEDULES**

Author(s): BLUMENFELD DE; BURNS LD; DAGANZO CF

Corporate Source: GM CORP, DEPT OPERATING SCI/WARREN//MI/48090; UNIV CALIF BERKELEY, DEPT CIVIL ENGN/BERKELEY//CA/94720

Journal: TRANSPORTATION RESEARCH PART B-METHODOLOGICAL, 1991, V25, N1, P 23-37

Language: ENGLISH Document Type: ARTICLE (Abstract Available)

Title: **SYNCHRONIZING PRODUCTION AND TRANSPORTATION SCHEDULES**

Abstract: This paper examines whether it is cost-effective to synchronize **production** and transportation schedules on a **production network**.

The **network** considered consists of one origin and many destinations.

The origin produces **parts** that are shipped **directly** to each destination. Tradeoffs between **production** set-up, freight transportation, and **inventory** costs on the **network** are analyzed, and total costs are compared for synchronized and independent schedules. The paper focuses on a simple **production** system, which can be modeled analytically and which allows the basic issues in synchronizing schedules...

...synchronization can be sufficiently large to warrant further research into more realistic albeit more complex **production** systems.

...Identifiers--ANALYZING TRADE-OFFS; **INVENTORY**; **NETWORKS**; COSTS

Research Fronts: 89-1227 001 (STAGE-OF-FABRICATION **INVENTORY** BEHAVIOR; DISEQUILIBRIUM MODEL; ADJUSTMENT COSTS FOR LABOR)

89-1611 001 (FLOWSHOP SCHEDULING; FLEXIBLE MANUFACTURING SYSTEMS; BATCH SETUP TIMES)

89-6088 001 (REPAIRABLE ITEM **INVENTORY** SYSTEM; ECONOMIC ORDER

27/3,K/26 (Item 1 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2000 Institution of Electrical Engineers. All rts. reserv.

4624016 INSPEC Abstract Number: C9404-1290F-079

**Title: Pacific Conference on Manufacturing (PCM)**

Journal: International Journal of Production Economics vol.33, no.1-3

Publication Date: Jan. 1994 Country of Publication: Netherlands

CODEN: IJPEE6 ISSN: 0925-5273

U.S. Copyright Clearance Center Code: 94/\$07.00

Conference Title: Pacific Conference on Manufacturing (PCM)

Conference Date: 3-6 Nov. 1992 Conference Location: Osaka, Japan

Language: English

Abstract: The following topics were dealt with: expert systems; AGV management; **production** planning; flow shop scheduling; neural **networks** ; adaptive fault diagnosis; quality control; flexible manufacturing systems (FMS); group technology; **production** ordering systems; JIT; **inventory** control; **parts** layout **planning** ; and **production** control.

...Descriptors: **production** control...

...**stock** control

...Identifiers: **production** planning...

...neural **networks** ; ...

...**production** ordering systems...

...**inventory** control...

...**production** control

27/3,K/27 (Item 2 from file: 2)

DIALOG(R)File 2:INSPEC

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04339973 INSPEC Abstract Number: C9303-3355C-015

**Title: Automatic production of NC code for machining form features in generic parts**

Author(s): Masotti, G.; Bombardi, T.

Author Affiliation: Bologna Univ., Italy

Journal: Computing & Control Engineering Journal vol.3, no.6 p. 287-95

Publication Date: Nov. 1992 Country of Publication: UK

CODEN: CCEJEL ISSN: 0956-3385

U.S. Copyright Clearance Center Code: 0956-3385/92/\$3.00+.00

Language: English

**Title: Automatic production of NC code for machining form features in generic parts**

...Abstract: this system, it is possible to program and simulate all the operations involved in the **production** of a **part** . The **planning** of the **production** process starts with the solid model of the final **part** , the solid model of the blank, as well as models of the available machine tools ...

... associated with each feature. Machining processes are stored in a knowledge base organised as a **network** . The most suitable process is selected, on the basis of available knowledge, or directly by the user. The system then determines the **list** of required tools, their optimal sequencing, and the transfer and working paths for each tool...

Descriptors: computer aided **production** planning...

...Identifiers: **production** process

27/3,K/28 (Item 3 from file: 2)

DIALOG(R)File 2:INSPEC

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03724597 INSPEC Abstract Number: C90061607

**Title: Grouping parts and tools in flexible manufacturing systems**  
production planning

Author(s): Ventura, J.A.; Frank Chen, F.; Chih-Hang Wu

Author Affiliation: Dept. of Ind. & Manage. Syst. Eng., Pennsylvania  
State Univ., University Park, PA, USA

Journal: International Journal of Production Research vol.28, no.6  
p.1039-56

Publication Date: June 1990 Country of Publication: UK

CODEN: IJPRB8 ISSN: 0020-7543

U.S. Copyright Clearance Center Code: 0020-7543/90/\$3.00

Language: English

**Title: Grouping parts and tools in flexible manufacturing systems**  
production planning

Abstract: Batch **production** in a flexible manufacturing environment is  
necessary not only to satisfy some technological constraints but...

... to achieve potential reductions in processing time, to reduce  
work-in-process and finished goods **inventories** , and to simplify the  
**production** planning process. Central to batch **production** is the problem  
of grouping part types and the required tools into families for  
simultaneous...

... the optimal objective function value. The Lagrangian dual program is  
further decomposed into a linear **network** subproblem and a set of knapsack  
subproblems. A subgradient algorithm with several enhancement strategies is

...

...Descriptors: **production** control

...Identifiers: **production** planning...

...finished goods **inventories** ; ...

...batch **production** ;

27/3,K/29 (Item 4 from file: 2)

DIALOG(R)File 2:INSPEC

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03665163 INSPEC Abstract Number: B90042517, C90045393

**Title: CIM for the various mass production in an electronic units**  
plant

Author(s): Ikada, T.

Author Affiliation: Inst. of Syst., Kyoto, Japan

Journal: Systems, Control and Information vol.34, no.3 p.188-9

Publication Date: March 1990 Country of Publication: Japan

CODEN: SSEJE3 ISSN: 0916-1600

Language: Japanese

**Title: CIM for the various mass production in an electronic units**  
plant

Abstract: The following topics are discussed: electronic control units;  
EDP parts **lists** ; factory automation; car electronics; and JENNETS, the  
Jecs Engineering **Network** Systems.

...Identifiers: mass **production** ; ...

...EDP parts **lists** ; ...

...Jecs Engineering **Network** Systems

27/3,K/30 (Item 5 from file: 2)  
DIALOG(R) File 2:INSPEC  
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03513211 INSPEC Abstract Number: C90003120

**Title: A knowledge-based manufacturing scheduling shell**

Author(s): Jacobs, H.; Kolts, J.; Barrett, S.; DeLucia, M.

Author Affiliation: Texas Instrum. Inc., Austin, TX, USA

Conference Title: Proceedings of the Third International Conference.  
Expert Systems and the Leading Edge in Production and Operations Management  
p.401-13

Editor(s): Karwan, K.R.; Sweigart, J.R.

Publisher: Univ. South Carolina, Columbia, SC, USA

Publication Date: 1989 Country of Publication: USA viii+712 pp.

Conference Sponsor: Univ. South Carolina

Conference Date: 21-24 May 1989 Conference Location: Hilton Head  
Island, SC, USA

Language: English

Abstract: The Computer Systems Division of Texas Instruments has developed an operations management tool for **scheduling** and **planning**, targeted especially for **plants** doing discrete **part manufacturing** and/or assembly operations. This tool is called the Manufacturing Scheduling Shell. The Shell provides...

... support. TI is using this system internally to schedule a manufacturing line that produces consumer **products**, and is also helping external customers with scheduling problems. The Shell is a model-based...

...and a dedicated CPU to work with the human decision-maker in stand-alone or **networked** environments. The system generates a number of reports, **inventory** plots, and Gantt charts to aid the user in developing a factory schedule. In addition, the Shell uses sophisticated AI-based representation tools such as semantic **networks**, strategy management, and world-time management. These tools allow natural and flexible structural and behavioral...

...Identifiers: **inventory** plots...

...semantic **networks** ;

27/3,K/31 (Item 6 from file: 2) ✓  
DIALOG(R) File 2:INSPEC  
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02851628 INSPEC Abstract Number: C87024620

**Title: Computer-assisted production of manufacturing documentation**

Author(s): Lattke, W.

Author Affiliation: VEB Kombinat Uniformtech. 'Herbert Warnke', Erfurt, East Germany

Journal: Rechentechnik Datenverarbeitung vol.23, no.12 p.27

Publication Date: Dec. 1986 Country of Publication: East Germany

CODEN: RTDVAQ ISSN: 0300-3450

Language: German

**Title: Computer-assisted production of manufacturing documentation**

Abstract: Describes a database oriented system used to generate some of the documents required for the **management** of **manufacturing**. The information covered includes **parts lists**, **production plans** and **schedules**, **lists** of drawings, vouchers for stores issues and payments, and maintenance issues. The system will in the future be extended to give interactive operation, and access via a local area **network**.

...Identifiers: **parts lists** ; ...

...**production plans**

27/3,K/32 (Item 7 from file: 2)



DIALOG(R)File 2:INSPEC

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02730772 INSPEC Abstract Number: C86047032

**Title: Factory automation: the future in the present**

Author(s): Peyrucat, J.-F.; Vernay, J.-P.

Journal: Mesures vol.51, no.8 p.27, 31-3, 35-7, 39-40, 42

Publication Date: 20 May 1986 Country of Publication: France

CODEN: MSRSET ISSN: 0755-219X

Language: French

Abstract: A trademark **registered** by Philips in 1979 is defined to cover all aspects of the factory of the future, including its machinery, automation **components**, and links between design, **management**, **manufacture**, inspection and so forth. Several international projects within the European Communities are instanced with special...

... advanced corporation with regard to activities of several subsidiaries. Brief allusions are made to computeraided **production** management, CAD/CAM, industrial programmable controllers, local **networks** and protocols.

...Identifiers: computeraided **production** management...

...local **networks** ;

**27/3,K/33 (Item 8 from file: 2)**

DIALOG(R)File 2:INSPEC

(c) 2000 Institution of Electrical Engineers. All rts. reserv.

01830801 INSPEC Abstract Number: C82013981

**Title: Coordination of production schedules with shipping schedules**

Author(s): Maxwell, W.L.; Muckstadt, J.A.

Author Affiliation: Cornell Univ., Ithaca, NY, USA

Book Title: Multi-level **production /inventory** control systems: Theory and practice p.127-43

Editor(s): Schwarz, L.B.

Publisher: North-Holland, Amsterdam, Netherlands

Publication Date: 1981 Country of Publication: Netherlands x+398 pp.

ISBN: 0 444 86096 7

Language: English

**Title: Coordination of production schedules with shipping schedules**

Book Title: Multi-level **production /inventory** control systems: Theory and practice

Abstract: Scheduling logistics operations in a multiechelon **production** system requires planning and coordination of **production** and transportation decisions. The authors show how these decisions can be made in an economical manner for a real situation involving: limited capacity **production** lines in an automotive **component plant**; limited rail car shipping capability at the component plant; and meeting shipping requirements on time...

...over a fixed planning horizon. The model employed is a special case of a multicommodity **network** flow problem. A two-phase heuristic solution procedure is developed, first for a weekly aggregate...

... aggregate demand within the first week of the horizon. The straightforward details of disaggregating into **production** and shipping schedules for **products** are also presented.

Descriptors: **production** control...

...stock control

Identifiers: **production** schedules...

...multiechelon **production** system...

...limited capacity **production** lines...

...multicommodity **network** flow problem

**27/3,K/34** (Item 9 from file: 2)  
DIALOG(R)File 2:INSPEC  
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01592139 INSPEC Abstract Number: C80033226

**Title: Information systems: development, architecture, technology. The development of the information systems of the Alfa Romeo Group**

Author(s): Dini, D.

Journal: Sistemi e Automazione vol.26, no.206 p.543-53

Publication Date: July-Aug. 1980 Country of Publication: Italy

CODEN: SSAUBD ISSN: 0037-5896

Language: Italian

**Abstract:** Deals with the dynamics of the systems. This is followed by a **section** on the **planning** and **production** of the information systems. Diagrams help to explain both of these sections. These are both...

... the interdependence and optimisation of the information services. The structural bonds of vectorial variables are **listed** and diagrams and tables supplement these. The general structure of the applicable systems is described, together with the architecture of the elaboration **network**. The last section gives some details of information circulation. Many further diagrams are included to...

**27/3,K/35** (Item 10 from file: 2)  
DIALOG(R)File 2:INSPEC  
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01260842 INSPEC Abstract Number: C78028454

**Title: The basic principles of a computer-aided order-controlled planning and control system in the iron and steel industry**

Author(s): Mahner, B.

Journal: AMR p.6-9

Publication Date: Jan.-Feb. 1978 Country of Publication: West Germany

CODEN: AMRTAO

Language: German

**Title: The basic principles of a computer-aided order-controlled planning and control system in the iron and steel industry**

...Abstract: steel works is presented incorporating the following main aims: (a) adherence to promised customer's **delivery** date; (b) minimal manufacturing costs; (c) shortening of the time in process; (d) minimal number of **parts** in store; (e) exact **planning** of requirements for each **production** stage; (f) accurate reports and statistics. In particular, the most important tasks and functions in **order** -oriented planning, **preparation** and production are dealt with in detail and explained with the aid of block diagrams...

**27/3,K/36** (Item 1 from file: 35)  
DIALOG(R)File 35:DISSERTATION ABSTRACTS ONLINE  
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01353828 ORDER NO: AAD94-13012

**AN EVALUATION OF OPTIMAL AND HEURISTIC PROCEDURES FOR FINITE SCHEDULING IN COMPUTER-INTEGRATED MANUFACTURING (SCHEDULING)**

Author: HUFFMAN, BRIAN JOSEPH

Degree: PH.D.

Year: 1993

Corporate Source/Institution: UNIVERSITY OF MINNESOTA (0130)

Source: VOLUME 54/12-B OF DISSERTATION ABSTRACTS INTERNATIONAL.

PAGE 6436. 298 PAGES

...CIM this function should be accomplished such that manufacturing velocities are high and that customer **delivery** schedules are met.

The optimal procedures developed in this research find a schedule for all...

...production resource capacities are not exceeded, batch due dates are met, and such that the **start** time for the work as a whole is maximized. The information which the procedures that are developed require to produce a **schedule** consists of: the bills-of-materials, master **production schedule**, per unit processing times, **production** resource capacities, and **production** resource requirements. **Order -for-order** lot-sizing is assumed.

The fact that the information in the master production schedule is...

27/3,K/37 (Item 2 from file: 35)  
DIALOG(R) File 35:DISSERTATION ABSTRACTS ONLINE  
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01087042 ORDER NO: AADDX-86750

**REAL TIME MRP WITH OPTIMISATION OF MANUFACTURING CAPACITY UTILISATION**

Author: SINULINGGA, SUKARIA

Degree: PH.D.

Year: 1988

Corporate Source/Institution: COUNCIL FOR NATIONAL ACADEMIC AWARDS  
(UNITED KINGDOM) (0935)

Source: VOLUME 50/09-A OF DISSERTATION ABSTRACTS INTERNATIONAL.

PAGE 2964. 231 PAGES

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The success of a manufacturing company in obtaining **orders** for its products from customers depends on the quality of service that the company provides. A manufacturing company, therefore, should be able to **prepare** a precise plan and to maintain its manufacturing facilities sufficiently flexible to enable it to offer to customers competitive prices and **delivery** dates and to **deliver orders** on the promised **delivery** dates.

The traditional MRP systems and the extended systems (MRP II), which were considered as...

...is characterized by the way it develops the production programme. Instead of developing forecasted master **production schedules**, it operates with actual customers' **orders** and stocked **component** replenishments which are processed on an **order to order** basis. When spare capacity is available, replenishment **orders** for some stocked component called "unfirm" **orders**, are loaded to the manufacturing facility in **order** to utilize the spare capacity. Hence, these components are loaded for manufacture a little earlier...

...availability rather than normal replenishment requirement. This enhances the utilization of capacity and, enables shorter **delivery** dates to be provided for customers' **orders** since some stock replenishment will no longer compete with customers' **orders** for capacity requirement.

The system, however, allows unfirm **orders** to be off loaded, if necessary, to provide sufficient capacity for higher priority **orders**.

In **order** to demonstrate the potential of the proposed method, a simulation model is developed. By means...

27/3,K/38 (Item 3 from file: 35)  
DIALOG(R) File 35:DISSERTATION ABSTRACTS ONLINE  
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773789 ORDER NO: AAD82-00423

**PRODUCT ROUTING IN A MANUFACTURING NETWORK USING MULTICOMMODITY NETWORK FLOWS**

Author: MEHRI, HOJJAT

Degree: PH.D.

Year: 1981

Corporate Source/Institution: ILLINOIS INSTITUTE OF TECHNOLOGY (0091)

Source: VOLUME 42/10-B OF DISSERTATION ABSTRACTS INTERNATIONAL.  
PAGE 4168. 130 PAGES

**PRODUCT ROUTING IN A MANUFACTURING NETWORK USING MULTICOMMODITY  
NETWORK FLOWS**

This dissertation presents a multicommodity **network** model for routing various types of **products** through a multistage manufacturing **network**. In this **manufacturing** system, once the periodic operating **schedules** in **units** of time are decided, the facilities should be kept in operation at least that many units of time, and extra labor or machine hours are used to produce to **inventory**. Flow materials are divided into two priority groups. The low priority materials compete for capacities or resources not used by priority **items**. The low priority **items** may accumulate at any intermediate storage along their flow paths. In this system initial and final **inventories** are not assumed to be zero.

The problem is formulated as a multicommodity **network** flow situation with a special feature to accommodate priority requirements. The model is contrasted with...

27/3,K/39 (Item 1 from file: 99)

DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs

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1290863 H.W. WILSON RECORD NUMBER: BAST96013075

**Order release in JIT production systems: a simulation study**

Takahashi, Katsuhiko; Nakamura, Nobuto; Ohashi, Kenichi

Simulation v. 66 (Feb. '96) p. 75-87

DOCUMENT TYPE: Feature Article ISSN: 0037-5497

**Order release in JIT production systems: a simulation study**

**ABSTRACT:** Part of a special section on simulation in **production management**. The authors describe the development of a queuing **network** model of the Kanban system with a simulation language for discrete-event simulation, SLAM II. The Kanban system of Just-in-Time **production** is dealt with as an order release system for multi-stage **production inventory** systems. In addition, an attempt is made to improve the Kanban system by modifying the...

27/3,K/40 (Item 2 from file: 99)

DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs

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1128802 H.W. WILSON RECORD NUMBER: BAST93060967

**Bravo Version 4 Plus**

AUGMENTED TITLE: from Applicon

Smith, Alan D;

Design News v. 48[49] (Dec. 6 '93) p. 186

DOCUMENT TYPE: Product Evaluation ISSN: 0011-9407

...**ABSTRACT:** for 2-dimensional work, dimensioning, 3-dimensional surfaces, and solid modeling as well as for **part** assemblies, **manufacturing**, data **management**, and dynamic **part** rotation. The redesign has resulted in one of the cleanest and most well organized user interfaces in the software industry. The **list** price for Bravo Version 4 Plus ranges from \$5,000 to \$25,000, depending on purchased application modules and number of **network** nodes.

**DESCRIPTORS:** Product evaluation;

33/3,K/1 (Item 1 from file: 8)  
DIALOG(R) File 8: Ei Compendex(R)  
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02834732 E.I. Monthly No: EIM8912-045979

**Title: Machining strategy and adaptive control optimization for planetary EDM.**

Author: Staelens, F.; Snoeys, R.; Kruth, J. P.  
Corporate Source: Katholieke Univ Leuven, Louvain, Belg  
Conference Title: Research and Technological Developments in  
Nontraditional Machining Presented at the Winter Annual Meeting of the ASME  
Conference Location: Chicago, IL, USA Conference Date: 19881127  
E.I. Conference No.: 12276  
Source: American Society of Mechanical Engineers, Production Engineering  
Division (Publication) PED v 34. Publ by American Soc of Mechanical  
Engineers (ASME), New York, NY, USA. p 213-227  
Publication Year: 1988  
CODEN: ASMDDU  
Language: English

Abstract: Planetary Electro Discharge Machining is using a relative motion between tool and work **piece**, resulting in an equidistant enlargement of eroded 3-dimensional cavities. Although this planetary EDM has...

...an appropriate machining strategy. Such a strategy indicates how to select the generator parameters in **order** to machine a work **piece**. It is shown that an optimal machining strategy can be defined, based on a continuous...

Identifiers: ELECTRO DISCHARGE **MACHINING** ; **PLANETARY** SPARK EROSION;  
MACHINING STRATEGY

33/3,K/2 (Item 2 from file: 8)  
DIALOG(R) File 8: Ei Compendex(R)  
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02249421 E.I. Monthly No: EIM8705-034722

**Title: AUTOMATED PLANNING IN THE MACHINING DOMAIN.**

Author: Hayes, C.; Wright, P.  
Corporate Source: Carnegie-Mellon Univ, Pittsburgh, PA, USA  
Conference Title: Knowledge-Based Expert Systems for Manufacturing. (Presented at the Winter Annual Meeting of the American Society of Mechanical Engineers.)  
Conference Location: Anaheim, CA, USA Conference Date: 19861207  
E.I. Conference No.: 09574  
Source: American Society of Mechanical Engineers, Production Engineering Division (Publication) PED v 24. Publ by ASME, New York, NY, USA p 221-232  
Publication Year: 1986  
CODEN: ASMDDU  
Language: English

...Abstract: an expert system designed to automate the processes by which a human machinist turns a **part** design into a **machining plan**. It differs from other approaches in several ways: first, it aims at automating the process of **ordering** the steps in a plan, an area that is generally not dealt with directly. Second, it treats the **ordering** of the plan, and the choice of tools and fixtures as an integrated interdependent whole...

33/3,K/3 (Item 3 from file: 8)  
DIALOG(R) File 8: Ei Compendex(R)  
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02030411 E.I. Monthly No: EI8610098408 E.I. Yearly No: EI86067693

**Title: Flexible Manufacturing System for Complete Machining of Truck Gear Housings.**

Title: FLEXIBLES FERTIGUNGSSYSTEM ZUR KOMPLETTBEARBEITUNG VON

LKW-GETRIEBEGEHAUSEN.

Author: Gruen, Bodo; Mannchen, Gunter

Source: Werkstatt und Betrieb v 119 n 6 Jun 1986 p 437-440

Publication Year: 1986

CODEN: WKUBA9 ISSN: 0043-2792

Language: GERMAN

Abstract: The prerequisite for solving difficult user-specific machining problems is the availability of matured modular **units** for machining and measuring, for the handling of **parts** and tools, as well as for data processing and controlling of all process data. Moreover, it is essential to adapt all **components** to the task within the framework of a common general planning, in **order** to set up a well-operating flexible manufacturing system. This is explained in detail at the example of a flexible **machining plant** for a manufacturer of automatic truck and bus transmissions. (Author abstract) In German.

33/3,K/4 (Item 1 from file: 2)

DIALOG(R)File 2:INSPEC

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02269774 INSPEC Abstract Number: C84029187

**Title: Automation of mechanical parts machining plans**

Author(s): Descotte, Y.; Latombe, J.-C.

Journal: Informatique et Gestion no.144 p.60-7

Publication Date: Sept. 1983 Country of Publication: France

CODEN: IFQGAJ ISSN: 0020-062X

Language: French

**Title: Automation of mechanical parts machining plans**

Abstract: To plan the construction of a mechanical **part** one needs the following: specification of jobs, **order** of execution, and regrouping the operations necessary into simultaneous operations and those executed in the same place by the same machine without taking the **part** off and choosing the tools. What has been so far developed is limited to low-level tasks such as classification of **pieces** to be worked on and a library of job-types. The system called GARI has...

...contradictory assertions. The types of information fed in are the following: the first describes the **piece** to be constructed, the second describes the machine to be used and the third consists...

...Identifiers: execution **order** ; ...

...mechanical **parts machining plans** ;

33/3,K/5 (Item 1 from file: 35)

DIALOG(R)File 35:DISSERTATION ABSTRACTS ONLINE

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01427921 ORDER NO: AADAA-I9526212

**AUTOMATED MANUFACTURABILITY ANALYSIS OF MACHINED PARTS**

Author: GUPTA, SATYANDRA K.

Degree: PH.D.

Year: 1994

Corporate Source/Institution: UNIVERSITY OF MARYLAND (0117)

Source: VOLUME 56/04-B OF DISSERTATION ABSTRACTS INTERNATIONAL.

PAGE 2276. 243 PAGES

**AUTOMATED MANUFACTURABILITY ANALYSIS OF MACHINED PARTS**

...this thesis, a systematic approach has been developed for computer-aided manufacturability analysis of machined **parts**. This approach can be used during design stages to improve the product quality from the...

...ways to manufacture a proposed design, this requires considering alternative ways to manufacture it, in **order** to determine which one best meets the design and manufacturing objectives.

The approach developed in this thesis is based on the systematic exploration of various **machining plans**. The first step is to identify all machining features which can potentially be used to machine the given design. Using these features, different **machining plans** are generated. Each time a new plan generated, it is examined to find whether it...

...to be capable of meeting the tolerance specifications, then its rating is computed. If no **machining plan** can be found that is capable of producing the design, then the design cannot be...

...the manufacturability rating of the design is computed. Since various alternative ways of machining the **part** are considered in this approach, the conclusions about the manufacturability are more realistic compared to ...

...that this research will help in speeding up the evaluation of new product designs in **order** to decide how or whether to manufacture them. Such a capability will be useful in...

33/3,K/6 (Item 2 from file: 35)  
DIALOG(R)File 35:DISSERTATION ABSTRACTS ONLINE  
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0964090 ORDER NO: AAD87-18925  
**MPL: A NEW MACHINING PROCESS/PROGRAMMING LANGUAGE**  
Author: CHAN, STEPHEN CHI FAI  
Degree: PH.D  
Year: 1987  
Corporate Source/Institution: THE UNIVERSITY OF ROCHESTER (0188)  
Source: VOLUME 48/06-B OF DISSERTATION ABSTRACTS INTERNATIONAL.  
PAGE 1767. 263 PAGES

...the concepts underlying the language and the facilities supported by the current processor.

A typical **machining plan** (or program) in MPL is a sequence of setup and machining statements. Setup statements specify mainly the position of the stock relative to the fixture through **ordered** stock and fixture feature-matching relations. Machining statements specify removal operations on features of the **part**.

Setup statements are translated by XMPL into rigid motions for moving the stock from an...

...feature specified. XMPL selects cutters, generates cutter paths, determines feeds and speeds, and generates appropriate **part** program code. The current processor supports 2 $\frac{1}{2}$  axis machining operations in which axial...

33/3,K/7 (Item 1 from file: 99)  
DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs  
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1203064 H.W. WILSON RECORD NUMBER: BAST94071727  
**A computer-aided process planning methodology**  
Li-Hong Qiao; Zhi-Bing Yang; Wang, H.-P. Ben  
Computers in Industry v. 25 (Nov. '94) p. 83-94  
DOCUMENT TYPE: Feature Article ISSN: 0166-3615

...ABSTRACT: computer-aided process planning (CAPP) methodology/prototype system for companies where engineers design and fabricate **parts** at different locations. The CAPP system involves examining a workpiece's surfaces in **order** to identify all possible machining processes for all facets. Next, workpiece surfaces and machining processes are evaluated

together in **order** to eliminate any unpractical processes from the pool of machining solutions. Feasible machining processes can be dispatched to any production site, where optimal **machining plans** can be chosen based on local production conditions. This system is shown to be particularly...

...stages of design. The authors are presently studying process planning from its foundational concept in **order** to set up a CAPP prototype system that is generic.



34/3,K/1 (Item 1 from file: 6)

DIALOG(R)File 6:NTIS

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1421892 NTIS Accession Number: PB89-151799

**Design Protocol, Part Design Editor, and Geometry Library of the Vertical Workstation of the Automated Manufacturing Research Facility at the National Bureau of Standards**

Kramer, T. R. ; Jun, J. S.

Catholic Univ. of America, Washington, DC.

Corp. Source Codes: 005734000

Sponsor: National Bureau of Standards, Gaithersburg, MD.

28 Jan 88 113p

Languages: English

Journal Announcement: GRAI8909

Sponsored by National Bureau of Standards, Gaithersburg, MD.

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NTIS Prices: PC A06/MF A01

...data execution, and physical execution stages. The design of a part is expressed as a **list** of features on a block-shaped workpiece. Each feature is a removed volume. A feature...

Descriptors: Design; **Machining** ; **Planning**

34/3,K/2 (Item 1 from file: 35)

DIALOG(R)File 35:DISSERTATION ABSTRACTS ONLINE

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01665407 ORDER NO: AADMQ-30995

**AN OBJECT-ORIENTED FUZZY EXPERT SYSTEM FOR THE DESIGN OF ROTATING OPERATIONS**

Author: YUAN, XIN

Degree: M.A.SC.

Year: 1997

Corporate Source/Institution: UNIVERSITY OF WINDSOR (CANADA) (0115)

Source: VOLUME 37/01 of MASTERS ABSTRACTS.

PAGE 339. 152 PAGES

ISBN: 0-612-30995-9

...condition design module. The database consists of six kinds of data files: machinability of workpieces, **machining plan**, fuzzy rule, tool adapter, machine tool, as well as cutter **inventory** files. The rules in the rule base are developed based on fuzzy set theory. They...

...and cutters are selected. Then, the selected grades and cutters are searched against the cutter **inventory** data file to check the availability. The cutting condition design module is developed based on.

36/3,K/1 (Item 1 from file: 6)

DIALOG(R) File 6:NTIS

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2026645 NTIS Accession Number: AD-A327 601/1/XAB

**Final Report for: Supporting Planning in Concurrent Design Environments**

(Final rept. 1 Jan-31 Dec 91)

Cutkosky, M. R.

Stanford Univ., CA. Dept. of Mechanical Engineering.

Corp. Source Codes: 009225026; 400774

31 Dec 91 24p

Languages: English

Journal Announcement: GRAI9724

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NTIS Prices: PC A03/MF A01

... as a team activity, where the planner needs to interact with the user and specialized **domain** modules of the environment on a continual basis. Previous approaches for planning in such **domains** have either been largely **domain** specific or have compromised with shallow models of the **domain**-specific considerations. In this research, we have explored a hybrid incremental-planning architecture which utilizes...

... set of specialists to complement both the overall expressiveness and reasoning power of a traditional **hierarchical** planner. In particular, we implemented a hybrid planning architecture for doing process planning for machining in the NEXT-CUT concurrent design environment. We developed techniques for effectively interfacing a **machining planner**, a geometric reasoner and a fixture planner. Our architecture allowed effective interaction between the planner and the specialists, without binding the planner too tightly to the internal operations or the **domain** specific knowledge of the specialists. The incremental operation of the planner and the specialists was...

22/3,K/1 (Item 1 from file: 349)  
DIALOG(R) File 349:PCT Fulltext  
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00695688

**DYNAMIC FLOW-THROUGH CONTEXT SWITCHING OF INVESTMENT DATA INTO MULTIPLE INVESTMENT TOOLS**

**COMMUTATION DE DONNEES D'INVESTISSEMENT DANS DES INSTRUMENTS D'INVESTISSEMENT MULTIPLES AVEC CONTEXTE DYNAMIQUE A DEBIT ELEVE**

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94122 , US

Patent and Priority Information (Country, Number, Date):

Patent: (WO 200008581) WO 0008581 A1 20000217

Application: WO 99US17644 19990803 (PCT/WO US9917644)

Priority Application: US 98128273 19980803

Designated States: AE; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; CA; CH; CN;  
CU; CZ; DE; DK; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS;  
JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MD; MG; MK; MN; MW;  
MX; NO; NZ; PL; PT; RO; RU; SD; SE; SG; SI; SK; SL; TJ; TM; TR; TT; UA;  
UG; UZ; VN; YU; ZA; ZW; GH; GM; KE; LS; MW; SD; SL; SZ; UG; ZW; AM; AZ;  
BY; KG; KZ; MD; RU; TJ; TM; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR;  
IE; IT; LU; MC; NL; PT; SE; BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML; MR;  
NE; SN; TD; TG

Publication Language: English

Filing Language: English

Fulltext Word Count: 16573

Fulltext Availability:

Detailed Description

Detailed Discription

... 1, there is shown an illustration of the user interface of the  
investment research software **product** in accordance with the present  
invention. The user interface 100 includes two basic portions: navigators  
...

...investment tools 122. (In this Z) disclosure, reference numbers without  
letter subscripts are references to **items** generally, and references  
with letter subscripts are to specific **items** ). The navigators 102  
include **domain** navigators 102a, 102b, and a child navigator 102c. The  
**domain** navigators include a markets navigator 102a and a portfolio  
navigator 102b, and an internal research navigator 102d (shown in Fig.  
18). Each navigator 102 provides a **hierarchical listing** of financial  
instruments (or other investment **related** data) at various levels of  
categorization. In the embodiment described herein, the financial  
instruments are...

22/3,K/2 (Item 2 from file: 349)  
DIALOG(R) File 349:PCT Fulltext  
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00678757

**A METHOD OF PARTITIONING A VISUAL USER INTERFACE**

**PROCEDE DE FRAGMENTATION D'UNE INTERFACE UTILISATEUR VIDEO**

Patent Applicant/Assignee:

THOMSEN Elizabeth; Address - THOMSEN, Elizabeth , Strandvejen 274E,  
DK-3070 Snekkersten , DK

Inventor(s):

THOMSEN Elizabeth; Address - THOMSEN, Elizabeth , Strandvejen 274E,  
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Patent and Priority Information (Country, Number, Date):

Patent: WO 9961976 A1 19991202

Application: WO 99DK282 19990526 (PCT/WO DK9900282)

Priority Application: DK 199800726 19980526

Designated States: AE; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; CA; CH;  
CN; CU; CZ; DE; DK; EE; ES; FI; GB; GD; GE; GH; GM;  
HR; HU; ID; IL; IN; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU;  
LV; MD; MG; MK; MN; MW; MX; NO; NZ; PL; PT; RO; RU; SD; SE; SG; SI; SK;  
SL; TJ; TM; TR; UA; UG; US; UZ; VN; YU; ZA; ZW; GH; GM; KE; LS;  
MW; SD; SL; SZ; UG; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM; AT; BE; CH;  
CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE; BF; BJ; CF;  
CG; CI; CM; GA; GN; GW; ML; MR; NE; SN; TD; TG

Publication Language: English

Filing Language: English

Fulltext Word Count: 9124

Fulltext Availability:

Detailed Description

Detailed Description

... independently from PAP and vice versa.

The cut, copy and paste of titles and projects **function** With PAP it is possible to cut or copy titles with all that's **related** to them (e.g. images and image databases, documents and document databases, links, conferences, **products** presented and **product** databases) and paste the whole context into other projects on the same site or into...

...procedure could e.g. be as follows: The user goes (e.g. via the navigation **function** ) to where the "objects" (projects, titles, subtitles, conferences, **products** and many others) are, that he wishes to copy or cut (copy and delete from...

...that there's a little arrow next to each "object" (e.g. titles, conferences, trade **functions** ). A **hierarchic** index or other **functions** can also appear in paste mode. When an arrow is pressed on, the material that...

...is being pasted in does not "fit" in (ex. a project title in a user **list** ), an alert appears in frame 3 that refuses the paste.

The control and freeze function...

22/3,K/3 (Item 3 from file: 349)

DIALOG(R) File 349:PCT Fulltext

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00610888

**SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR PATENT-CENTRIC AND GROUP-ORIENTED DATA PROCESSING, INCLUDING USING HYPERBOLIC TREES TO VISUALIZE DATA**

**SYSTEME, PROCEDURE, ET PROGRAMMES INFORMATIQUES POUR LE TRAITEMENT DE DONNEES AXES SUR DES BREVETS D'INVENTION OU DES GROUPES, INCLUANT L'UTILISATION D'ARBORESCENCES HYPERBOLIQUES POUR VISUALISER DES DONNEES**

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RABB Charles Jr; Address - RABB, Charles, Jr. , 730 E. Evelyn &638, Sunnyvale, CA 94086 , US  
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THORNTHWAITE Warren; Address - THORNTHWAITE, Warren , 147 Hedge Road, Menlo Park, CA 94025 , US  
NAVARRETE Jorge A; Address - NAVARRETE, Jorge, A. , 160 Hedge Road, Menlo Park, CA 94025 , US

Patent and Priority Information (Country, Number, Date):

Patent: WO 9855945 A1 19981210  
Application: WO 98US10923 19980602 (PCT/WO US9810923)  
Priority Application: US 97867392 19970602; US 97921369 19970829

Designated States: AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; CA; CH; CN; CU; CZ; DE; DK; EE; ES; FI; GB; GE; GH; GM; GW; HU; ID; IL; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MD; MG; MK; MN; MW; MX; NO; NZ; PL; PT; RO; RU; SD; SE; SG; SI; SK; SL; TJ; TM; TR; TT; UA; UG; UZ; VN; YU; ZW; GH; GM; KE; LS; MW; SD; SZ; UG; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE; BF; BJ; CF; CG; CI; CM; GA; GN; ML; MR; NE; SN; TD; TG

Publication Language: English

Filing Language: English

Fulltext Word Count: 80894

Fulltext Availability:

Claims

Claim

... present invention is group enabled. According to the present invention, a group is a data **structure** that includes a collection of patents. The patents in a group typically follow a common...

...and sold by a company.

A second group may include patents that map to a **product** or **product** feature being considered for future manufacture and sale by a company. A third group may...

...fifth group may include patents owned by a competitor. A sixth group may include patents **related** to a research project. A seventh group may include licensed patents. An eighth group may include patents and/or non-patent documents **related** to a litigation ...the first image page of We avociated patent (that is, the next patent in the **list** 14706). Enterprise server 3 14 responds by returning raw data corresponding to this image page...

22/3,K/4 (Item 4 from file: 349)

DIALOG(R)File 349:PCT Fulltext

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00590235

CONSUMER PROFILING SYSTEM WITH ANALYTIC DECISION PROCESSOR

SYSTEME DE DETERMINATION DU PROFIL DE CONSOMMATEURS A PROCESSEUR DE DECISION ANALYTIQUE

Patent Applicant/Assignee:

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Inventor(s):

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Divila, San Diego, CA 92122, US  
Patent and Priority Information (Country, Number, Date):  
Patent: WO 9835297 A1 19980813  
Application: WO 98US1515 19980128 (PCT/WO US9801515)  
Priority Application: US 97794387 19970206  
Designated States: CA; GB; JP; NO; AT; BE; CH; DE; DK; ES; FI; FR; GB; GR;  
IE; IT; LU; MC; NL; PT; SE  
Publication Language: English  
Filing Language: English  
Fulltext Word Count: 10187  
Fulltext Availability:  
Detailed Description

Detailed Discription

... applicable to local installations, such as intranets, or single  
workstation embodiments.

Fig. 2 provides a **functional** block diagram of the decision engine and  
consumer profiling process according to the present invention...

...module that uses a low level representation of a consumer's profile and  
an abstract **hierarchical** and statistical representation of the **domain**  
of interest to determine a personally ranked **list** of **items** for the  
consumer. The question and answer sequencer 10 1 uses an editorially  
scripted narrative...

...the consumer through the creation of a personal profile. The database  
module 103 is a **relational** database or other storage system used for  
the storage and maintenance of consumer profiles. The...

22/3,K/5 (Item 5 from file: 349)  
DIALOG(R)File 349:PCT Fulltext  
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00288230

**SPIN: A SEQUENTIAL PIPELINED NEUROCOMPUTER**  
**NEURO-ORDINATEUR A TRAITEMENT "PIPELINE" SEQUENTIEL**

Patent Applicant/Assignee:

INTERNATIONAL BUSINESS MACHINES CORPORATION

Inventor(s):

VASSILIADIS Stamatis

PECHANЕК Gerald George

DELGADO-FRIAS Jose Guadalupe

Patent and Priority Information (Country, Number, Date):

Patent: WO 9118347 A1 19911128

Application: WO 91US2251 19910408 (PCT/WO US9102251)

Priority Application: US 90526866 19900522

Designated States: AT; BE; CH; DE; DK; ES; FR; GB; GR; IT; JP; LU; NL; SE

Publication Language: English

Fulltext Word Count: 13315

Fulltext Availability:

Detailed Description

Detailed Discription

... the four basic operations contained in Equation 1 and 2 for a  
completely connected neuron **Network** . Each of the preferred embod iments  
will be description with respect to the basic SPIN architecture. SPIN  
will implement an N neuron **network** where N represents the number of  
phys ical neuron implemented. SPIN provides the multiplication operation  
by uti lizing N multipliers, the N **product** summations by a pipelined  
adder **tree structure** , the N activation **functions** by utilizing one  
activation **function** module and sequentially passing the N neuron input  
**product** summations through it, and the N x N communications by utilizing

one bus which sequen tially provides the N neuron values to the multiplier input **registers** organized in a shift **register** fashion. All SPIN architectures are implementable in a bit serial or by word representation fashion...

22/3,K/6 (Item 1 from file: 348)  
DIALOG(R) File 348:European Patents  
(c) 2000 European Patent Office. All rts. reserv.

00959155

ORDER fax of complete patent from Dialog SourceOne. See HELP ORDER 348  
Method computer program product and data structure for validating creation of an routing messages to file objects

Verfahren, Rechnerprogrammprodukt und Datenstruktur zur Validierung von Erzeugung von, und Leitung von Botschaften zu Dateiobjekten

Methode, programme d'ordinateuret structure de donnees pour validation de creation de, et routage de messages a des objets fichier

PATENT ASSIGNEE:

MICROSOFT CORPORATION, (749861), One Microsoft Way, Redmond, Washington 98052-6399, (US), (applicant designated states:  
AT;BE;CH;DE;DK;ES;FI;FR;GB;GR;IE;IT;LI;LU;MC;NL;PT;SE)

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LEGAL REPRESENTATIVE:

Belcher, Simon James et al (58311), Urquhart-Dykes & Lord Tower House  
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PATENT (CC, No, Kind, Date): EP 871111 A2 981014 (Basic)  
EP 871111 A3 981216

APPLICATION (CC, No, Date): EP 97304293 970619;

PRIORITY (CC, No, Date): US 826644 970404

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: G06F-009/44;

ABSTRACT WORD COUNT: 193

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9842	466
SPEC A	(English)	9842	10829
Total word count - document A			11295
Total word count - document B			0
Total word count - documents A + B			11295

ORDER fax of complete patent from Dialog SourceOne. See HELP ORDER 348

...ABSTRACT A2

A method, computer program **product** , and data structure is provided overcome excess code development associated with developing device drivers that are **hierarchically related** and provides standardization to driver developers by **listing** in the private area of a device object types of file objects, including specific IRP...

...object to thereby provide a device object context. In like manner, each file object has **listed** in the private area types of other file objects, again including specific IRP handlers associated...

...a file object context. The default handler for a driver object points to a multiplexing **function** that will process an incoming IRP based on the available context information to "route" the IRP to the appropriate handler. Each file object has reference to a plurality of dispatch **function** references that are used by the IRP handlers to fulfil a particular request. A request...

...validated to assure that only file objects of the appropriate type may be created in **hierarchy** , again according to the context information.

22/3,K/7 (Item 2 from file: 348)  
DIALOG(R) File 348:European Patents  
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00860823

ORDER fax of complete patent from Dialog SourceOne. See HELP ORDER 348

**Portable communication apparatus**

**Tragbares Kommunikationsgerät**

**Appareil de communication portable**

PATENT ASSIGNEE:

SONY CORPORATION, (214023), 7-35, Kitashinagawa 6-chome, Chiyoda-ku,  
Tokyo, (JP), (applicant designated states: DE;FI;FR;GB;SE)

INVENTOR:

Sudo, Fukuharu, c/o Sony Corporation, 7-35, Kitashinagawa 6-chome,  
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LEGAL REPRESENTATIVE:

Nicholls, Michael John et al (61941), J.A. KEMP & CO. 14, South Square  
Gray's Inn, London WC1R 5LX, (GB)

PATENT (CC, No, Kind, Date): EP 792056 A2 970827 (Basic)  
EP 792056 A3 990616

APPLICATION (CC, No, Date): EP 97301217 970225;

PRIORITY (CC, No, Date): JP 9665377 960226

DESIGNATED STATES: DE; FI; FR; GB; SE

INTERNATIONAL PATENT CLASS: H04M-001/72; H04M-001/274;

ABSTRACT WORD COUNT: 96

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9708W4	687
SPEC A	(English)	9708W4	10270
Total word count - document A			10957
Total word count - document B			0
Total word count - documents A + B			10957

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...SPECIFICATION an arbitrary setting can be obtained in accordance with a user's desire.

Since the **function items** to be displayed have increased and the number of rows and columns of the liquid crystal display provided as a display means is not sufficient, the **items** are separated into groups which are respectively comprised of the **related items**, and the menu which is provided in the portable telephone apparatus is **hierarchically** constructed, in general. So, when the stated **function** item is to be set, the group to which the **function** item belongs is first selected, and then the **list of items** which belong to the group is displayed. The desired **function** item is found during scrolling the **list** of the **items**, and the cursor is adjusted to that portion to select the **function** item, and the setting is performed.

However, in the conventional menu display, the ways of...

22/3,K/8 (Item 3 from file: 348)  
DIALOG(R) File 348:European Patents  
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00790100

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**Customizable menu for a television receiver accessed via a remote control keyboard**

**Kundengebundenen Menu für einen durch eine Fernbedienungstastatur gesteuerten Fernsehempfänger**

**Menu personnalisable pour recepteur de television commande par un clavier de controle a distance**

PATENT ASSIGNEE:



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DE;FR;GB;IT)

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(US)  
Reavis, Jeffrey Philip, 6230 North Crittenden, Indianapolis, IN, (US)  
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Wordemann, Hermes, Dipl.-Ing. (61962), Deutsche Thomson-Brandt GmbH,  
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PATENT (CC, No, Kind, Date): EP 737006 A2 961009 (Basic)  
EP 737006 A3 970723

APPLICATION (CC, No, Date): EP 96104764 960326;

PRIORITY (CC, No, Date): US 419859 950405

DESIGNATED STATES: DE; FR; GB; IT

INTERNATIONAL PATENT CLASS: H04N-005/445;

ABSTRACT WORD COUNT: 160

LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPAB96	315
SPEC A	(English)	EPAB96	2149
Total word count - document A			2464
Total word count - document B			0
Total word count - documents A + B			2464

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...SPECIFICATION to name a few.

In an attempt to present an orderly array of these controllable **functions**, manufacturers introduced the concept of **function** control menus. In such well-known schemes, a menu is called up to the screen, and a particular **function** to be controlled, such as COLOR, is selected by the viewer for adjustment. Unfortunately, the...

...long for convenient screen display, and were expanded to include sub-menus allowing selection of **related items**. For example, selecting the menu item entitled VIDEO brings up yet another menu **listing such related items** as, BRIGHTNESS, CONTRAST, COLOR, TINT, SHARPNESS, COLOR TEMPERATURE, and VIDEO NOISE REDUCTION. While such an ...

...a mire of menus and submenus to accomplish that simple task. In many cases, complex **hierarchical** menus found on today's receivers must be searched from top to bottom in order to locate the desired **function** to be executed. It is noted that the location of commands within the **hierarchy** may have seemed "intuitively obvious" to the programmer, but may be confusing to the nontechnical...

22/3,K/9 (Item 4 from file: 348)

DIALOG(R)File 348:European Patents

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00627548

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**A method and a computer system for storing terms in a data base.**

**Verfahren und Rechnersystem zum Speichern von Begriffen in einer Datenbank.**  
**Un procede et un systeme d'ordinateur pour enregistrer des termes dans une base de donnees.**

PATENT ASSIGNEE:

INTERNATIONAL BUSINESS MACHINES CORPORATION, (200125), Old Orchard Road,  
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INVENTOR:

Farber, Franz, Beethovenstrasse 34, W-7030 Boblingen, (DE)  
LEGAL REPRESENTATIVE:  
Schafer, Wolfgang, Dipl.-Ing. (62021), IBM Deutschland  
Informationssysteme GmbH Patentwesen und Urheberrecht, D-70548  
Stuttgart, (DE)  
PATENT (CC, No, Kind, Date): EP 612017 A1 940824 (Basic)  
APPLICATION (CC, No, Date): EP 93102439 930217;  
PRIORITY (CC, No, Date): EP 93102439 930217  
DESIGNATED STATES: DE; FR; GB  
INTERNATIONAL PATENT CLASS: G06F-015/20;  
ABSTRACT WORD COUNT: 93

LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF2	1120
SPEC A	(English)	EPABF2	4503
Total word count - document A			5623
Total word count - document B			0
Total word count - documents A + B			5623

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...SPECIFICATION a thesaurus e.g., for basic types of semantic relations between terms can be distinguished:  
\* **hierarchical** relations  
Take for example the narrower term relations (NT), the relation between an object and...

...two terms, which have the same or a similar meaning. In contrary to a synonym **list**, a thesaurus defines synonyms as words with exactly the same meaning. In a thesaurus, a...  
...RT) if the things they denote "have to do with each other" but are not **related** in some obvious way. Examples: (Table omitted)  
\* other relations  
Many other relations between terms can be thought of, which often depend on the way a **domain** of knowledge is organized. E.g. in car manufacturing, an is-made-of relation between a **product** part and a material is a possible additional relation.  
A table of relations R may...

22/3,K/10 (Item 5 from file: 348)  
DIALOG(R)File 348:European Patents  
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00566381

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**A massively parallel diagonal fold tree array processor.**  
**Hochgradig paralleler diagonal gefalteter Baumtabellenprozessor.**  
**Reseau diagonal de processeurs en arbre, massivement parallele.**

PATENT ASSIGNEE:

INTERNATIONAL BUSINESS MACHINES CORPORATION, (200123), , Armonk, NY  
10504, (US), (applicant designated states: DE;FR;GB)

INVENTOR:

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Delgado-Frias, Jose Guadalupe, 612 Lacey Drive, Endwell, NY 13760, (US)

LEGAL REPRESENTATIVE:

Jost, Ottokarl, Dipl.-Ing. (6092), IBM Deutschland Informationssysteme  
GmbH, Patentwesen und Urheberrecht, D-70548 Stuttgart, (DE)

PATENT (CC, No, Kind, Date): EP 569763 A2 931118 (Basic)  
EP 569763 A3 940713

APPLICATION (CC, No, Date): EP 93106730 930426;

PRIORITY (CC, No, Date): US 881597 920512

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: G06F-015/80;

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF1	2380
SPEC A	(English)	EPABF1	6212
Total word count - document A			8592
Total word count - document B			0
Total word count - documents A + B			8592

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...SPECIFICATION Diagonal-Cells and the General-Cells for the direct emulation of the neural sum of **products function** and did not address the processing of locally stored data, for example as required by...

...and D. The term "element", used in the following discussion, refers to the minimum architected **functional** unit required TSNAP neural emulation capabilities, namely a weight **register** , a Y value **register** , and a multiplier symbolically indicated as W(see image in original document)(see image reference in original document)Y( sub(j)). The **register** terminology of "Y" and W(see image reference in original document)Y( sub(j)) is kept through out the general processor discussion with out limiting the **register** usage to the neural emulation paradigm. The first "cell", -- Fig 'SPA1' unknown --A, is associated...Fig 'SPA1' unknown --C and D and consist in the addition of a tag compare **function** , an optional instruction buffer, an instruction (INSTR) **register** , an expanded **register** file, Conditional Execution Bits (CEB) in each data **register** , a data path **register** , an instruction path bit, selector and distributor control structures, and expanded **functions** , such as division, square root, etc. that may be application specific in addition to multiplication...

...used to differentiate instructions from data. Second, by utilizing programmable data path and instruction path **registers** in conjunction with a front end decoding and distribution mechanism, the destination for a received instruction or data word can be specified. Third, a tag compare **function** allows further capability in specifying instruction and data destination points. Fourth, since an instruction may specify multiple **functions** , an instruction **register** and instruction decoding, operand selection, **function** selection, destination selection, and execution mechanisms must be provided. Fifth, to provide flexibility in algorithmic capability, a **register** file with Conditional Execution Bits are provided along with capability of manipulating the CEBs. The execution of an instruction, whose result destination is a local PE **register** , is conditional based upon the state of the destination **register** 's CEB. The CEB indicates whether a **register** can be modified or not. The PE programmability is obtained through the instructions which are decoded at a PE's instruction **register** received from either an optional instruction buffer or with no instruction buffer from the attached...

...is in a communications mode. Each PE upon receipt of an instruction in the instruction **register** will execute the operation specified by that instruction. The instruction types include a data/instruction path specification, data movement, arithmetic, and logical instructions. Each PE contains an instruction **register** for each processing element specifying the source and destination paths and EXU **functions** ; a Diagonal-PE contains one instruction **register** and the General-PE contains two instruction **registers** .

The modification to the T-SNAP cells must preserve the **functional** capabilities provided by the original cells, in order to support neural emulation as well as other applications requiring similar capabilities. An essential, novel, and general purpose **functional** capability provided by the T-SNAP multiplier cells, that must be maintained in the new...  
...the emulation of completely connected processors, for example neuron

processor as used for completely connected **networks** such as Hopfield 82 and Hopfield 84. This important **function** is briefly reviewed using the original T-SNAP cells -- Fig 'SPA1' unknown --A and B.. For example, with a neural **network** model in an execution mode, implying a multiplication operation in each processing cell, the diagonal cell multiplies its stored weight with its stored Y value and **supplies** the multiplied result to the attached add tree. In the communications mode for the diagonal...

...Y value is received from the attached add tree and stored into the Y value **register** . The "General-Cells" of the structure also generate a weight times Y value and supply the **product** to their attached add trees. In the communications mode for these "General-Cells", a Y...

...value received from the bottom multiplier add tree is stored into the top Y value **register** and likewise a Y( sub(i)) value received from the top multiplier add tree will be stored into the bottom Y value **register** . This switch in storing the Y values is an essential characteristic supporting complete connectivity. For...

...the Processor Element Instruction Set section of this Chapter. To preserve the internal path switch **function** of the original T-SNAP cells, the new processor cells require that the data path **registers** be specified (loaded) in advance of receiving data from a tree. The data path **register** specifies the destination of the Yj data received from the bottom tree to be the top Yj **register** and the destination of the Yi data received from the top add tree to be the bottom Yi **register** thereby preserving the complete connectivity **function** .

The symbolic summation tree is shown on the left of -- Fig 'TREE1' unknown -- with ALUs...

...each stage designated by the letter A. The more detailed representation of the communicating ALU **tree structure** that will be used is shown on the right-hand side of -- Fig 'TREE1' unknown --. Pipeline latches have been left out for more clarity. For specific applications, the ALU **function** might be as simple as a bit-serial adder or provide more complex programmable **functions** requiring an instruction set architecture. For the purposes of describing the **function** execution and communications operations a summation operation may be referred to in this text. The use of the summation **function** is for simplicity of explanation and not intended to imply a limit to the **functionality** the communicating ALU tree can provide. In addition, the tree nodes' control mechanism, that determines the nodes operational mode and **function** , can use separate control lines or tagged tree node instructions. For a single node **function** such as addition and two operational modes, namely communications and **function** execution, a single control line implementation is feasible. If more extended **functions** are to be supported in a tree node, then not only would additional control mechanisms...

...required but storage elements may be required in a tree node. In addition, if multiple **functions** are provided in the tree nodes then a method of synchronistically controlling tree operations must be utilized. If varying **function** execution timings are to be allowed in each tree node then an asynchronous interfacing method...

...ALU. The communicating ALU tree can be placed into one of two modes, namely a **function** execution mode and a communications mode, also termed a bypass mode. A common control signal...

...that all nodes of the tree provide the same mode of operation. One of the **functions** specified by the tree control signal, an accompanying tag signal or common distributed signal, is...

...in a high impedance state and when in the "on" state bypasses the ALU (node **function** ) via a low impedance path. When SW1 is enabled SW2 is disabled and vice versa. In this manner the ALU tree can provide the

summation **function** , for example, in one direction, SW1's on - SW2's off, while essentially acting as...

...bypass mode, SW1's off - SW2's on. The ALU tree using 2 to 1 **functional** elements, such as 2-1 adders, will require  $\log(\text{sub } 2)N$  stages.

Alternatively, the ALU **function** and communication mode can be implemented with 3-1, 4-1, ..., N-1 **functional** elements, such as 3-1, 4-1, ..., N-1 adders, and their bypass switches, utilizing all the same element types or in combination, to produce the specified **function** . It should be noted that the Communicating ALU, -- Fig "TREE1" unknown --, represents its logical **function** since, for example, depending upon technology, the SW1's **function** could be incorporated in the gate devices used in the last internal stage of each ALU element, thereby adding no additional delay to the ALU **function** . Alternatively, a separate communications tree path could be provided, thereby allowing communications to occur while an ALU **function** is in progress.

A 4 Root Tree Processor example is shown in -- Fig 'SPA4N' unknown...

...Massively Parallel Diagonal-Fold Tree Array Processor. The CATs are assumed to provide a summation **function** in ALU execution mode. An example of the elements involved in a sum of "W \* Y" **register products** calculation for the third Root Tree Processor RTP(sub 3) is written here and highlighted...

...and traced values. There is assumed to be a Root Tree Processor for each communicating/**function** execution tree and their N attached PEs. Each Root Tree Processor issues instructions and data to the N tree attached PEs through the communications mode of tree operation. Additional **functions** the Root Tree Processor and Host interface include the following:

1. All processor initializations
- 2...

22/3,K/11 (Item 6 from file: 348)

DIALOG(R)File 348:European Patents

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00521596

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**A medical ultrasound imaging system having a partitioned menu.**

**Medizinisches Ultraschall-Bildgerät mit aufgeteiltem Menu.**

**Appareil d'imagerie a ultrasons avec menu partage.**

PATENT ASSIGNEE:

Hewlett-Packard Company, (206030), 3000 Hanover Street, Palo Alto,  
California 94304, (US), (applicant designated states: DE;FR;GB;NL)

INVENTOR:

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Koch III, Albert Frederick, 284 High Street, Newburyport, MA 10950, (US)

LEGAL REPRESENTATIVE:

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PATENT (CC, No, Kind, Date): EP 520338 A2 921230 (Basic)  
EP 520338 A3 940330

APPLICATION (CC, No, Date): EP 92110400 920619;

PRIORITY (CC, No, Date): US 720149 910624

DESIGNATED STATES: DE; FR; GB; NL

INTERNATIONAL PATENT CLASS: A61B-008/00; G01S-015/89; G06F-003/023;

ABSTRACT WORD COUNT: 176

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF1	480
SPEC A	(English)	EPABF1	4508
Total word count - document A			4988
Total word count - document B			0

Total word count - documents A + B 4988

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...SPECIFICATION assigned to each soft key as the mode change and displayed on a display device.

**Hierarchical** menus, such as "pull-down" menus, have also been used to minimize the control set...

...to the user. Each menu is displayed on a display device and typically offers a **list** of available menu **items related** to a particular mode or **function** from which the user selects one item. This selection either produces the desired **function** or causes another lower level menu to be displayed which offers more menu **items related** to the first selected item. The selection process is repeated until the desired ultrasound system **function** is selected. The user may need to go through several menu layers to reach the desired **function**. From there the user may need to back track through several menu layers to reach another desired **function**.

Summary of the Invention

The present invention provides a control panel for a medical ultrasound  
...

**22/3,K/12 (Item 7 from file: 348)**

DIALOG(R)File 348:European Patents

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00344488

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**Method for producing a knowledge based system.**

**Verfahren zur Erzeugung eines auf Wissen basierenden Systems.**

**Methode pour generer un systeme a base de connaissance.**

PATENT ASSIGNEE:

International Business Machines Corporation, (200120), Old Orchard Road,  
Armonk, N.Y. 10504, (US), (applicant designated states: DE;FR;GB)

INVENTOR:

Highland, Frederic Dean, 12226 Detour Road Box 36, New Midway Maryland  
21775, (US)

LEGAL REPRESENTATIVE:

Jost, Ottokarl, Dipl.-Ing. (6092), IBM Deutschland Informationssysteme  
GmbH, Patentwesen und Urheberrecht, D-70548 Stuttgart, (DE)

PATENT (CC, No, Kind, Date): EP 355287 A2 900228 (Basic)  
EP 355287 A3 920930  
EP 355287 B1 950524

APPLICATION (CC, No, Date): EP 89110330 890608;

PRIORITY (CC, No, Date): US 234268 880819

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: G06F-009/44;

ABSTRACT WORD COUNT: 108

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF1	651
CLAIMS B	(English)	EPAB95	659
CLAIMS B	(German)	EPAB95	621
CLAIMS B	(French)	EPAB95	753
SPEC A	(English)	EPABF1	4247
SPEC B	(English)	EPAB95	4305
Total word count - document A			4898
Total word count - document B			6338
Total word count - documents A + B			11236

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...SPECIFICATION information, such as fact bindings or certainty factors,

to their parents. The use of a **tree structure** guarantees that only one parent exists for each node in the rule tree, eliminating the...

...parents individually. This need may also be eliminated by passing the data values as a **list** of values rather than as separate **items**. The use of the "while loop" permits propagation (execution of a series of code segments...

...SPECIFICATION in order to reduce procedure call overhead.

Next, the nodes of each rule tree (sub-**network**) are represented as parts of a case structure within a "while loop" controlled by a...

...part of the case structure consists of a segment of program code that performs the **function** of a node in the rule **network** generated from the knowledge base. Each of the program code segments conditionally passes control to...

...information, such as fact bindings or certainty factors, to their parents. The use of a **tree structure** guarantees that only one parent exists for each node in the rule tree, eliminating the...

...parents individually. This need may also be eliminated by passing the data values as a **list** of values rather than as separate **items**. The use of the "while loop" permits propagation (execution of a series of code segments...

22/3,K/13 (Item 8 from file: 348)

DIALOG(R) File 348:European Patents

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00324388

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**Automated interface to project management tool**

**Automatisierte Schnittstelle fur Projektleitungswerkzeug**

**Interface a un outil de gestion de projet**

PATENT ASSIGNEE:

International Business Machines Corporation, (200120), Old Orchard Road,  
Armonk, N.Y. 10504, (US), (applicant designated states: DE;FR;GB;IT)

INVENTOR:

Ferriter, Kate M., 4299 Brookview Drive, Atlanta, GA 30339, (US)

Mathis, Robert B., 3321 River Heights Crossing, Marietta, GA 30067, (US)

LEGAL REPRESENTATIVE:

Tubiana, Max (18842), Compagnie IBM France Departement de Propriete  
Intellectuelle, 06610 La Gaude, (FR)

PATENT (CC, No, Kind, Date): EP 314596 A2 890503 (Basic)

EP 314596 A3 910116

EP 314596 B1 970423

APPLICATION (CC, No, Date): EP 88480035 880913;

PRIORITY (CC, No, Date): US 115073 871028

DESIGNATED STATES: DE; FR; GB; IT

INTERNATIONAL PATENT CLASS: G06F-017/20; G06F-017/60; G06F-017/21;

ABSTRACT WORD COUNT: 179

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF1	507
CLAIMS B	(English)	EPAB97	313
CLAIMS B	(German)	EPAB97	280
CLAIMS B	(French)	EPAB97	377
SPEC A	(English)	EPABF1	7759
SPEC B	(English)	EPAB97	7925
Total word count - document A			8266
Total word count - document B			8895
Total word count - documents A + B			17161

4875162

...SPECIFICATION established by the end of the query session.

Referring back to Figure 1, once the **product** structure is established, the next operation is to build and indent a bill of material 18. For the **product** generally represented by the **hierarchical tree structure** shown in Figure 2 and the **relational** database table shown in Figure 3, the indented bill of material would have the general form in the art. One skilled in the art will recognize that Figure 3 shows the logical storage of the **product** data structure and Figures 2 and 4 show two, alternative representations of the data. This bill of material is built by accessing the database table for the **product**. The table is accessed by item number. In the top level, item 1 is not indented. The second level **items** 2, 3, 4, and 5 are indented one space. The third level **items** 6, 7, 8, 9, and 10 are each indented two spaces, and so on. The application code follows the item **hierarchy** as follows: Item 1 appears on the top line. Item 2 appears on the second line. Then the database is searched for item 2 antecedents. **Items** 6 and 7 would be found. Item 6 would then appear on the third line...

...item 3 would not be found, and item 3 would appear on the fifth line. The remaining **items** are similarly processed until a complete bill of material is produced. Figure 5 shows a concrete example of a **hierarchical tree structure** generated on the computer screen during the query process. While only two levels are shown...

...one skilled in the art will understand that, within practical limits, a plurality of levels may be generated depending on the **product** and the level of detail required to define that **product**. Also, depending on the capabilities of the display system being used, the **hierarchical tree structure** may be displayed on several successive screens as the level of detail progresses. To do **product** costing, a **product** structure is first created using the **hierarchical tree structure**. For each item in the **product** structure, the user must enter known manufacturing information. From this information, cost estimates can be drawn from the database 10. The user inputs a rough estimate on overall **product** assembly time in hours per unit, as well as a contingency factor, like 15%. The system decomposes the **product** structure into a parts list, which is the indented bill of materials. The quantity of each part as well as cost per part are pulled from the manufacturing information table in the **relational** database associated with each item. The cost estimating **function** then multiplies each part on the list by quantity of that part, then by cost of the part. The results for the parts list are added. The labor estimate is multiplied by the standard hourly labor and burden rate. The results of the parts list multiplication and the labor multiplication are added, and the result is output to the user...

...SPECIFICATION established by the end of the query session.

Referring back to Figure 1, once the **product** structure is established, the next operation is to build and indent a bill of material 18. For the **product** generally represented by the **hierarchical tree structure** shown in Figure 2 and the **relational** database table shown in Figure 3, the indented bill of material would have the general form...

...one skilled in the art will recognize that Figure 3 shows the logical storage of the **product** data structure and Figures 2 and 4 show two, alternative representations of the data. This bill of material is built by accessing the database table for the **product**. The table is accessed by item number. In the top level, item 1 is not indented. The second level **items** 2, 3, 4, and 5 are indented one space. The third level **items** 6, 7, 8, 9, and 10 are each indented two spaces, and so on. The application code follows the item **hierarchy** as follows: Item 1 appears on the top line. Item 2 appears on the second line. Then the database is searched for item 2 antecedents. **Items** 6 and 7 would be found. Item 6 would then appear on the third line...

...item 3 would not be found, and item 3 would appear on the fifth line. The



remaining **items** are similarly processed until a complete bill of material is produced. Figure 5 shows a concrete example of a **hierarchical tree structure** generated on the computer screen during the query process. While only two levels are shown...

...understand that, within practical limits, a plurality of levels may be generated depending on the **product** and the level of detail required to define that **product**. Also, depending on the capabilities of the display system being used, the **hierarchical tree structure** may be displayed on several successive screens as the level of detail progresses. To do **product** costing, a **product** structure is first created using the **hierarchical tree structure**. For each item in the **product** structure, the user must enter known manufacturing information. From this information, cost estimates can be drawn from the database 10. The user inputs a rough estimate on overall **product** assembly time in hours per unit, as well as a contingency factor, like 15%. The system decomposes the **product** structure into a parts **list**, which is the indented bill of materials. The quantity of each part as well as cost per part are pulled from the manufacturing information table in the **relational** database associated with each item. The cost estimating **function** then multiplies each part on the **list** by quantity of that part, then by cost of the part. The results for the parts **list** are added. The labor estimate is multiplied by the standard hourly labor and burden rate. The results of the parts **list** multiplication and the labor multiplication are added, and the result is output to the user...

22/3,K/14 (Item 9 from file: 348)  
DIALOG(R)File 348:European Patents  
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00324379

ORDER fax of complete patent from Dialog SourceOne. See HELP ORDER 348

**Conceptual design tool**

**Entwurfswerkzeug**

**Outil de conception**

PATENT ASSIGNEE:

International Business Machines Corporation, (200120), Old Orchard Road,  
Armonk, N.Y. 10504, (US), (applicant designated states: DE;FR;GB;IT)

INVENTOR:

Ferriter, Kate M., 4299 Brookview Drive, Atlanta GA 30339, (US)

Witt, Philipp R., 1003 Southern Pines Drive, Endicott N.Y. 13760, (US)

LEGAL REPRESENTATIVE:

Tubiana, Max (18841), Compagnie IBM France Departement de Propriete  
Industrielle, F-06610 La Gaude, (FR)

PATENT (CC, No, Kind, Date): EP 314594 A2 890503 (Basic)

EP 314594 A3 910116

EP 314594 B1 960313

APPLICATION (CC, No, Date): EP 88480026 880913;

PRIORITY (CC, No, Date): US 113694 871028

DESIGNATED STATES: DE; FR; GB; IT

INTERNATIONAL PATENT CLASS: G06F-017/60;

ABSTRACT WORD COUNT: 128

5109337

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF1	456
CLAIMS B	(English)	EPAB96	387
CLAIMS B	(German)	EPAB96	372
CLAIMS B	(French)	EPAB96	450
SPEC A	(English)	EPABF1	4263
SPEC B	(English)	EPAB96	4387
Total word count - document A			4719
Total word count - document B			5596
Total word count - documents A + B			10315

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...SPECIFICATION may be displayed on several successive screens as the level of detail progresses.

To do **product** costing, a **product** structure is first created using the **hierarchical tree structure**. For each item in the **product** structure, the user must enter known manufacturing information. From this information, cost estimates can be drawn from the database 10. The user inputs a rough estimate on overall **product** assembly time in hours per unit, as well as a contingency factor, like 15%. The system decomposes the **product** structure into a parts **list** 18, and quantity of each part as well as cost per part are pulled from the manufacturing information table in the **relational** database associated with each item. The cost estimating **function** then multiplies each part on the **list** by quantity of that part, then by cost of that part. The results for the parts **list** are added. The labor estimate is multiplied by the standard hourly labor and burden rate. The results of the parts **list** multiplication and the labor multiplication are added, and the result is output to the user...

...SPECIFICATION may be displayed on several successive screens as the level of detail progresses.

To do **product** costing, a **product** structure is first created using the **hierarchical tree structure**. For each item in the **product** structure, the user must enter known manufacturing information. From this information, cost estimates can be drawn from the database 10. The user inputs a rough estimate on overall **product** assembly time in hours per unit, as well as a contingency factor, like 15%. The system decomposes the **product** structure into a parts **list** 18, and quantity of each part as well as cost per part are pulled from the manufacturing information table in the **relational** database associated with each item. The cost estimating **function** then multiplies each part on the **list** by quantity of that part, then by cost of that part. The results for the parts **list** are added. The labor estimate is multiplied by the standard hourly labor and burden rate. The results of the parts **list** multiplication and the labor multiplication are added, and the result is output to the user...

26/3,K/1 (Item 1 from file: 348)  
DIALOG(R) File 348:European Patents  
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00921557

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**A system for simulating a production environment**  
**System zur Simulation einer Produktionsumgebung**  
**Systeme pour simuler un environnement de production**

PATENT ASSIGNEE:

Plint & Partners Limited, (215172), Oaklands Park, Wokingham, Berkshire  
RG41 2FD, (GB), (applicant designated states:  
AT;BE;CH;DE;DK;ES;FI;FR;GB;GR;IE;IT;LI;LU;MC;NL;PT;SE)

INVENTOR:

Plint, Adrian George, Woodham House, Whitway, Newbury, Berkshire RG20 9LF  
, (GB)

Gardiner, Dean, 23 Egbert Road, Hyde, Winchester, Hampshire SO23 7EB,  
(GB)

Davidov, Amir, 40 Talbot Crescent, Hendon, London NW4 4HP, (GB)

LEGAL REPRESENTATIVE:

Style, Kelda Camilla Karen et al (75491), Page White & Farrer, 54 Doughty  
Street, London WC1N 2LS, (GB)

PATENT (CC, No, Kind, Date): EP 840187 A2 980506 (Basic)  
EP 840187 A3 990414

APPLICATION (CC, No, Date): EP 97308632 971029;

PRIORITY (CC, No, Date): GB 9622843 961101

DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU;  
MC; NL; PT; SE

INTERNATIONAL PATENT CLASS: G05B-019/418;

ABSTRACT WORD COUNT: 136

LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9819	406
SPEC A	(English)	9819	7592
Total word count - document A			7998
Total word count - document B			0
Total word count - documents A + B			7998

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...SPECIFICATION reliable the components are and how much they cost. The user then buys the necessary **components** by **issuing** a 'Purchaser **Order** ' to the supplier through the computer. The user then awaits the simulated arrival of the...

...the computer and continues to manage the production unit simulated by the system with the **components** which have already arrived. When a new **component** is **delivered** from a supplier as indicated by the computer a card representing the component must be...

...reads the card's unique identification. The computer 400 associates with the card's identification **number** a **number** of attributes **related** to the **component** the card represents. These attributes are stored in a **number** of databases in the computer. The attributes comprise fields which do not change during the...

26/3,K/2 (Item 2 from file: 348)  
DIALOG(R) File 348:European Patents  
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00619090

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**SCRIPT-BASED SYSTEM FOR TESTING A MULTI-USER COMPUTER SYSTEM**  
**DREHBUCH-BASIERTES SYSTEM ZUM TESTEN EINES MEHRBENUTZER-RECHNERSYSTEMS**  
**SYSTEME A BASE DE SCRIPTS POUR TESTER UN SYSTEME INFORMATIQUE**

**MULTI-UTILISATEURS**

**PATENT ASSIGNEE:**

THE DOW CHEMICAL COMPANY, (200247), 2030 Dow Center, Midland, Michigan  
48674, (US), (applicant designated states:  
AT;BE;DE;DK;FR;GB;IE;IT;LU;MC;NL;PT;SE)

**INVENTOR:**

REID, Nacine, M., 9450 Crestwood Drive, Parma Hights, OH 44130, (US)  
KAROLICK, Katherine, 10408 Dewey Road, Brecksville, OH 44141, (US)  
SCARR, James, L., 503 Fulmer Avenue, Akron, OH 44312, (US)  
PRESSLER, Armin, 3736 Paddington Lane North, Indianapolis, IN 46268, (US)  
BARTKUS, Sandy, J., 411 Rollcrest Court, Midland, MI 48640, (US)

**LEGAL REPRESENTATIVE:**

Betten & Resch (101031), Reichenbachstrasse 19, 80469 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 657045 A1 950614 (Basic)  
EP 657045 B1 980121  
WO 9406078 940317

APPLICATION (CC, No, Date): EP 93920278 930819; WO 93US7927 930819

PRIORITY (CC, No, Date): US 936395 920831

DESIGNATED STATES: AT; BE; DE; DK; FR; GB; IE; IT; LU; MC; NL; PT; SE

INTERNATIONAL PATENT CLASS: G06F-011/00; G06F-011/22;

**NOTE:**

No A-document published by EPO

LANGUAGE (Publication,Procedural,Application): English; English; English

**FULLTEXT AVAILABILITY:**

Available Text	Language	Update	Word Count
CLAIMS B	(English)	9804	1241
CLAIMS B	(German)	9804	1225
CLAIMS B	(French)	9804	1457
SPEC B	(English)	9804	14691
Total word count - document A			0
Total word count - document B			18614
Total word count - documents A + B			18614

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...SPECIFICATION section contains all item (product) related information necessary for order entry.

**- ORDER ENTRY DOCUMENTS**

This **section** provides a place to document an **order number** assigned by the SAP system and any other document **numbers** produced during **order** posting.

**- ORDER MANAGEMENT DOCUMENTS**

This **section** provides a place to document the system assigned document **numbers** during the process of **product** distribution (for example, **delivery note number**, shipment **number**, goods issue **number**, and other document **numbers**).

**- ORDER MANAGEMENT DIFFERENCES**

This **section** contains predetermined information such as quantity, batch, bin and any differences therebetween. An example would be a quantity difference between the **product** picked for shipment and the **product ordered**.

**- INVOICES**

This **section** provides a place to document SAP system assigned invoice work sheet and invoice **numbers**.

**- PURCHASE ORDER**

This **section** contains information relative to the entry of a purchase **order** as well as a place for document **number** recording.

**- PRODUCTION ORDER**

This **section** contains information relative to the entry of a **production order** as well as a place for document **number** recording.

**- RECEIPTS, ISSUES, TRANSFERS**

This **section** contains information relative to **inventory** movement sub-systems and a place for document **number** recording.

- PREP. DATA

This **section** contains information relative to **preparatory** data necessary to execute the script with a place for document **number** recording.

- PROPERTY

This **section** contains all the information necessary to record a fixed asset item.

- CASH MOVEMENTS

This section...

...System)

This section contains the invoice header information and invoicing information relating to each item/**product** on the **order** .

- VENDER INVOICE

This **section** contains all payable **related** data for vendor invoices.

- PURCHASE **ORDER** (FAS)

This **section** contains the purchase **order** header information and financial information relating to each item/**product** .

- FINANCIAL DOCUMENT

This section contains header information relative to the creation of financial documents.

- FINANCIAL...

...ITEM

This section contains information relative to items within the financial document.

- COST ACCOUNTING

This **section** contains cost accounting data.

- INTERNAL **ORDER**

This **section** contains information relating to internal **orders** .

- **DIRECT** COST & REVENUE **PLAN**

This **section** contains information relating to a **Direct** Cost and Revenue **Plan** for an item within the internal **order** .

- ACTIVITY USAGE & RESOURCE **PLAN**

This **section** contains information relating to an Activity Usage & Resource **Plan** for an item within the internal **order** .

- PRINT SEQUENCE

This **section** stores the information that **directs** the **order** in which the **sections** of the script are printed. The print sequence standardizes the format of the printed script...

26/3,K/3 (Item 3 from file: 348)

DIALOG(R) File 348:European Patents

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00572316

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System to service processor interface for a tablet computer.

System zu Diensten einer Prozessorschnittstelle fur ein Tablettcomputer.

Systeme au service d'un interface de processeur pour un ordinateur a tablette.

PATENT ASSIGNEE:

INTERNATIONAL BUSINESS MACHINES CORPORATION, (200125), Old Orchard Road,  
Armonk, N.Y. 10504, (US), (applicant designated states: DE;FR;GB)

INVENTOR:

Kannan, Krishnamurthi, 2715 Evergreen Street, Yorktown Heights, NY 10598,  
(US)

Leontiades, Kyriakos, 353 NW 22nd Street, Boca Raton, FL 33431, (US)

Novak, Frank Peter, 82 Oak Avenue, Park Ridge, NJ 07656-1325, (US)

Sharma, Vikram, 32 Hillview Drive, Pleasantville, NY 10570, (US)

LEGAL REPRESENTATIVE:

Burt, Roger James, Dr. (52152), IBM United Kingdom Limited Intellectual  
Property Department Hursley Park, Winchester Hampshire SO21 2JN, (GB)

PATENT (CC, No, Kind, Date): EP 566263 A2 931020 (Basic)

EP 566263 A3 970604

APPLICATION (CC, No, Date): EP 93302328 930325;

PRIORITY (CC, No, Date): US 869278 920415

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: G06F-003/033;

ABSTRACT WORD COUNT: 129

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF1	829
SPEC A	(English)	EPABF1	6976
Total word count - document A			7805
Total word count - document B			0
Total word count - documents A + B			7805

ORDER fax of complete patent from Dialog SourceOne. See HELP ORDER 348

...SPECIFICATION A8 : Enable Digitizer. This command  
clears bit 5 of the Controller Command, enabling digitizer point

**production .**

A9 : Test Digitizer. This command causes the SP to **send**  
a test command to the digitizer micro. The test result is placed in the  
output...operation or during execution of its diagnostics, it sets  
the error bit in the Controller **Status Register** . The host can  
determine the type of the exception by **issuing** this command to SP. If  
the SP is still alive it will respond with the...

**26/3,K/4 (Item 4 from file: 348)**

DIALOG(R)File 348:European Patents

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00569744

ORDER fax of complete patent from Dialog SourceOne. See HELP ORDER 348

**Cloning and expression of DNA encoding a ripening form of a polypeptide  
having rhamnogalacturonase activity.**

**Klonierung und Expression von fur eine reifende Form eines Polypeptids mit  
Rhamnogalacturonase-Tatigkeit kodierender DNS.**

**Clonage et expression d'ADN codante pour une forme murissante d'une  
polypeptide ayant l'activite de rhamnogalacturonase.**

PATENT ASSIGNEE:

QUEST INTERNATIONAL B.V., (1145600), Huizerstraatweg 28, NL-1411 GP  
Naarden, (NL), (applicant designated states:  
AT;BE;CH;DE;DK;ES;FR;GB;IE;IT;LI;NL;SE)

INVENTOR:

Musters, Wouter, Unilever Res. Lab. Vlaardingen, Olivier van Noortlaan  
120, NL-3133 AT Vlaardingen, (NL)

Stam, Hein, Unilever Res. Lab. Vlaardingen, Olivier van Noortlaan 120,  
NL-3133 AT Vlaardingen, (NL)

Suykerbuyk, Maria E., Normandie 139, NL-3524 RH Utrecht, (NL)

Visser, Jacob, Hinkeloordseweg 5, NL-6703 CK Wageningen, (NL)

Verbakel, Joh. Maria, Unilever Res.Lab.Vlaardingen, Olivier van Noortlaan  
120, NL-3133 AT Vlaardingen, (NL)

LEGAL REPRESENTATIVE:

Taylor, Anne Janette et al (79661), Nederlandsch Octrooibureau P.O. Box  
 29720, 2502 LS Den Haag, (NL)  
 PATENT (CC, No, Kind, Date): EP 570075 A2 931118 (Basic)  
 EP 570075 A3 950215  
 APPLICATION (CC, No, Date): EP 93201349 930511;  
 PRIORITY (CC, No, Date): EP 92201403 920515  
 DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FR; GB; IE; IT; LI; NL; SE  
 INTERNATIONAL PATENT CLASS: C12N-015/56; C12N-009/24; C12Q-001/68;  
 C12N-015/80; C12P-019/14; A23L-002/04; A23L-002/34; C07K-015/00;  
 G01N-033/53; C12N-009/24; C12R-001/66  
 ABSTRACT WORD COUNT: 100

LANGUAGE (Publication,Procedural,Application): English; English; English  
 FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF1	1043
SPEC A	(English)	EPABF1	17091
Total word count - document A			18134
Total word count - document B			0
Total word count - documents A + B			18134

ORDER fax of complete patent from Dialog SourceOne. See HELP ORDER 348

...SPECIFICATION inserts hybridise with mRNA after induction of  
 rhamnogalacturonase expression, the isolated cDNA inserts represent a  
**part** of the nucleotide sequence of the rhgA gene.

2.4 **Number** of rhgA and **related** genes in A.aculeatus and A. niger.  
 The 1.2 kb KpnI fragment of pUR7510...

...of A.aculeatus and A. niger N400 (CBS 120.49) genomic DNA, to establish  
 the **number** of rhgA (or **related** ) genes that are present in the genome  
 of A. aculeatus and A. niger N400. Using...

...Stratagene, La Jolla), T7-primer (Stratagene, La Jolla) and dedicated  
 synthetic primers (figure 9, sequence **listing** 7). **Additional** sequence  
 information for the region upstream of the rhgA gene was ...sequence of  
 the rhgA gene with the cDNA sequence unambiguously identified the  
 position and the **size** of three introns (figure 9, sequence **listing**  
 7).

2.6 Isolation of the rhgI and rhgII genes from A. niger genomic DNA...

...and 70 % for the rhgI and rhgII proteins respectively, as deduced from a  
 1500 bp **part** of the coding region, which was sequenced.

2.6.3. **Number** of rhgI and closely **related** genes in A. aculeatus and  
 A. niger

A 2.5 kb BamHI- HindIII fragment, comprising...

...restriction enzyme digests of A.aculeatus and A. niger N400 genomic DNA,  
 to establish the **number** of rhgI (or closely **related** ) genes that are  
 present in the genome of A. aculeatus and A. niger N400. Using...the  
 control of other promoters derived from Aspergillus strains by fusion at  
 the ATG-translational **start** signal. Promoters **directing** the  
 expression of the following genes can be used: the xylanase (xylA) gene  
 of A...

26/3,K/5 (Item 5 from file: 348)  
 DIALOG(R) File 348:European Patents  
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00429234

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**Process for preparing individualized, polycarboxylic acid crosslinked  
 fibers**

**Verfahren zum Herstellen individualisierter, mit Polycarboxylsaure  
 vernetzter Fasern**

**Procede pour preparer des fibres individualisees reticulees par un acide  
 polycarboxylique**

PATENT ASSIGNEE:

THE PROCTER & GAMBLE COMPANY, (200173), One Procter & Gamble Plaza,  
Cincinnati, Ohio 45202, (US), (applicant designated states:  
AT;BE;CH;DE;DK;ES;FR;GB;GR;IT;LI;LU;NL;SE)

INVENTOR:

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(US)

Hanser, Thomas Robert, 3339 Bluemont, Memphis, Tennessee 38134, (US)

Cooper, David James, 251 Windover Grove, Memphis, Tennessee 38111, (US)

Hersko, Bart Steven, 1795 Lockbourne Drive, Cincinnati, Ohio 45240, (US)

LEGAL REPRESENTATIVE:

Kyle, Diana et al (32731), Elkington and Fife Prospect House 8 Pembroke  
Road, Sevenoaks, Kent TN13 1XR, (GB)

PATENT (CC, No, Kind, Date): EP 427317 A2 910515 (Basic)

EP 427317 A3 911002

EP 427317 B1 970813

APPLICATION (CC, No, Date): EP 90202866 901029;

PRIORITY (CC, No, Date): US 432709 891107; US 596606 901017

DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FR; GB; GR; IT; LI; LU; NL; SE

INTERNATIONAL PATENT CLASS: D06M-013/192; D06M-101/06; D21H-011/20;

B01J-020/24; B01J-020/28

ABSTRACT WORD COUNT: 111

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF1	767
CLAIMS B	(English)	9708W2	545
CLAIMS B	(German)	9708W2	503
CLAIMS B	(French)	9708W2	625
SPEC A	(English)	EPABF1	11785
SPEC B	(English)	9708W2	11319

Total word count - document A 12553

Total word count - document B 12992

Total word count - documents A + B 25545

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...SPECIFICATION acid, a catalyst level of about 50 wt. %, based upon the amount of citric acid **added**, is preferred. It is additionally desirable to adjust the aqueous **portion** of the cellulosic fiber slurry or crosslinking agent solution to a target pH of between...consistency. Flash drying the fibers to a consistency, such as 90%-95%, in the higher **portion** of the 60%-100% range also reduces the **amount** of drying which must be accomplished in the curing stage following flash drying. The flash...



30/3,K/1 (Item 1 from file: 349)  
DIALOG(R) File 349:PCT Fulltext  
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00348666

**SYSTEM AND METHOD FOR INTERFACING TO A TRANSACTION PROCESSING SYSTEM**  
**SYSTEME ET PROCEDE DE CONNEXION A UN SYSTEME DE TRAITEMENT DE TRANSACTIONS**

Patent Applicant/Assignee:

THE DOW CHEMICAL COMPANY

Inventor(s):

GILBERT Peter W

WALTERS Brian J

DIMENT Matthew M

BURTON Reiner

Patent and Priority Information (Country, Number, Date):

Patent: WO 9409430 A1 19940428

Application: WO 93US9894 19931014 (PCT/WO US9309894)

Priority Application: US 92961271 19921015

Designated States: CA; NL; AT; BE; CH; DE; DK; ES; FR; GB; GR; IE; IT; LU;  
MC; NL; PT; SE

Publication Language: English

Fulltext Word Count: 21524

Fulltext Availability:

Detailed Description

Detailed Discription

... modularized, table driven system that uses transactions to perform specified functions. These functions may include **order** processing, inventory control and invoice validation; financial accounting, planning and control; **production** planning and control; and project accounting planning and control. The modules are all fully integrated...

...the order data enters a transient data queue of CICS and cannot be tracked or **managed**. In this environment, the external application cannot determine the status of its order, or even...that provides acknowledgment to external applications upon receipt of a message, and provides tracking and **management** of the message as it is processed through the transaction processing system.

Confirming receipt of...communication processes may exist concurrently. A communications monitor subsystem is provided to run, control, and **manage** the outbound communication processes.

The interface system according to the present invention handles three classes...one control record exists, indicating the location and the number of data records involved. In **managing** the flow of messages through the interface system, the subsystems only process the control record...

...by strobes generated by the monitor subsystem at regular timed intervals. The monitor subsystem also **schedules** the initiation of outbound processes. outbound processes include sending acknowledgments and other outbound messages to...File Reorganization

8. Display Function

Conclusion

1. overview of the invention

The present invention is **directed** to a system and method for interfacing an external process or application (application program) to ...

...tasks, rather than to carry out processing of a data message.

A "record" is a **unit** of data stored on a computer system, usually in a file or database.

"Message" has...

...currently working on it and its status is expected to change.

A "header" is a **portion** of a control record, usually at the beginning of the record, which contains information necessary...in the record. File type is used to localize certain types of records in one **portion** of the file. Examples of file types are provided in Table 1.

A "subsystemMH is...monitor process which monitors the records in communications log file 126. Communications monitor subsystem 110 **manages** multiple occurrences of the outbound communication process, insuring that only one task is started for...

...input messages 132 from external applications. Input messages 132 may include, for example, customer codes, **inventory** or **production schedule** updates, invoicing information, et cetera. According to a preferred embodiment, a plurality of input receive...

30/3,K/2 (Item 1 from file: 348)  
DIALOG(R) File 348:European Patents  
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01063945

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FILE STORAGE METHOD, DATA STORAGE APPARATUS, STORAGE MEDIA MANAGEMENT METHOD, FILE MANAGEMENT METHOD, METHOD OF WRITING RECEIVED DATA IN STORAGE MEDIA, AND PROGRAM STORAGE MEDIA

VERFAHREN UND VORRICHTUNG ZUR DATENSPEICHERUNG, VERFAHREN ZUR SPEICHERMEDIENVERWALTUNG, ZUR DATEIVERWALTUNG, ZUR SPEICHERUNG EMPFANGENER DATEN AUF EINEM MEDIUM, SOWIE PROGRAMM-SPEICHERMEDIUM

PROCEDE DE MEMORISATION DE FICHIERS, APPAREIL DE MEMORISATION DE DONNEES, PROCEDE DE GESTION DE SUPPORTS D'INFORMATION, PROCEDE DE GESTION DE FICHIERS, PROCEDE D'ECRITURE DES DONNEES RECUES DANS LES SUPPORTS D'INFORMATION, ET SUPPORTS DE MEMORISATION DE PROGRAMMES

PATENT ASSIGNEE:

MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD., (216880), 1006, Ohaza Kadoma, Kadoma-shi, Osaka 571-8501, (JP), (Applicant designated States: all)

INVENTOR:

MATSUMI, Chiyoko, A3-202, 3-1, Tsukumodai, Suita-shi, Osaka 565-0862, (JP)

YAMADA, Masazumi, 6-24-10, Kinda-cho, Moriguchi-shi, Osaka 570-0011, (JP)

YOSHIDA, Junji, 5-17, Ikedashinmachi, Neyagawa-shi, Osaka 572-0038, (JP)

JURI, Tatsuro, 1-5-8-2804, Tomobuchi-cho, Miyakojima-ku, Osaka-shi, Osaka 534-0016, (JP)

KURANO, Yukio, 3-10-10, Rokumanji-cho, Higashi-Osaka-shi, Osaka 579-8061, (JP)

LEGAL REPRESENTATIVE:

Grunecker, Kinkeldey, Stockmair & Schwanhausser Anwaltssozietat (100721), Maximilianstrasse 58, 80538 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 962866 A1 991208 (Basic)

WO 9931590 990624

APPLICATION (CC, No, Date): EP 98961374 981216; WO 98JP5696 981216

PRIORITY (CC, No, Date): JP 97348942 971218; JP 9846947 980227; JP 98134861 980518; JP 98134863 980518

DESIGNATED STATES: DE; FR; GB; NL

INTERNATIONAL PATENT CLASS: G06F-012/00

ABSTRACT WORD COUNT: 137

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; Japanese

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9949	3281
SPEC A	(English)	9949	18195
Total word count - document A			21476
Total word count - document B			0

Total word count - documents A + B 21476

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...SPECIFICATION file 102.

In (step 205), file information of the first file 103 is produced, and **registered** in recording medium management information, thereby realizing **production** of the file 103.

In (step 206), file information of the second file 104 is produced, and **registered** in recording medium management information, thereby realizing **production** of the file 104.

Thereafter, in (step 207), the control is ended as "normally ended...of file information of the file 111 is corrected and then reregistered in recording medium **management** information. In the case where only the front portion is to be trimmed, this process...

...a file is expressed by the record start position and the record end position is **managed**.

In a DV file system, a file on a tape is **managed** by using the record start position and the record end position. Alternatively, a file may be **managed** by using the record start position and the file size, or by using the record...

...method of the embodiment can be realized by any algorithm as far as recording medium **management** information can be eventually rewritten in an appropriate manner.

The embodiment has been described as a method. When the file **management** section 22 in the configurations shown in Figs. 1 and 4 is provided with the...

...step 224), file information of the files 121 and 122 is deleted from recording medium **management** information, thereby deleting the files 121 and 122.

In (step 225), file information of the file 123 is produced, and **registered** in recording medium **management** information, thereby realizing **production** of the file 123. Thereafter, in (step 226), the control is ended as "normally ended..."

30/3,K/3 (Item 2 from file: 348)  
DIALOG(R)File 348:European Patents  
(c) 2000 European Patent Office. All rts. reserv.

00663942

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**Method of and system for order amount calculation.** ✓

**Verfahren und System zur Berechnung von Bestellungsmengen.**

**Procede et systeme pour calculer le montant des commandes.**

PATENT ASSIGNEE:

TOYOTA JIDOSHA KABUSHIKI KAISHA, (203741), 1, Toyota-cho Toyota-shi,  
Aichi-ken, (JP), (applicant designated states: DE;FR;GB)

INVENTOR:

Kaneko, Kuniya, c/o Toyota Jidosha Kabushiki Kaisha, 1, Toyota-cho,  
Toyota-shi, Aichi-ken, (JP)

Fukuyma, Takeshi, c/o Toyota Jidosha Kabushiki Kaisha, 1, Toyota-cho,  
Toyota-shi, Aichi-ken, (JP)

Wakiyama, Harumichi, c/o Toyota Jidosha Kabushiki Kaisha, 1, Toyota-cho,  
Toyota-shi, Aichi-ken, (JP)

LEGAL REPRESENTATIVE:

Tiedtke, Harro, Dipl.-Ing. (11949), Patentanwaltsburo

Tiedtke-Buhling-Kinne & Partner Bavariaring 4, D-80336 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 637809 A2 950208 (Basic)

EP 637809 A3 950809

APPLICATION (CC, No, Date): EP 94112268 940805;

PRIORITY (CC, No, Date): JP 93196270 930806

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS. G06F-019/00; G06F-017/60; G06F-153/00  
ABSTRACT WORD COUNT: 145

LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF2	720
SPEC A	(English)	EPABF2	9633
Total word count - document A			10353
Total word count - document B			0
Total word count - documents A + B			10353

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...SPECIFICATION disclosed in Japanese Laid-Open Patent Publication No. 63-192159. In this technique, when a **product production plan** is given, **parts order** amounts are determined from the given **product production plan** and such data as the **parts list** of the **product** and **delivery** term of the **parts**, etc. This technique may be called a **plan** correspondence system.

According to the technique of the subsequently resupplying system, in demand variation periods...

**30/3,K/4 (Item 3 from file: 348)**  
DIALOG(R)File 348:European Patents  
(c) 2000 European Patent Office. All rts. reserv.

00623645

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**SYSTEM AND METHOD FOR INTERFACING TO A TRANSACTION PROCESSING SYSTEM**  
**SYSTEM UND VERFAHREN ZUR SCHNITTSTELLENBILDUNG FUR TRANSAKTION-VERARBEITUNG**  
**SSYSTEM**

**SYSTEME ET PROCEDE DE CONNEXION A UN SYSTEME DE TRAITEMENT DE TRANSACTIONS**  
PATENT ASSIGNEE:

THE DOW CHEMICAL COMPANY, (200247), 2030 Dow Center, Midland, Michigan 48674, (US), (applicant designated states: DE;FR;NL)

INVENTOR:

GILBERT, Peter, W., 1112 Wildwood Street, Midland, MI 48642, (US)

WALTERS, Brian, J., 1665 East Chippewa River Road, Midland, MI 48640, (US)

DIMENT, Matthew, M., 5179 Maple Lane, Beaverton, MI 48612, (US)

BURTON, Reiner, Koenigsaecker 92, D-6830 Schwetzingen, (DE)

LEGAL REPRESENTATIVE:

Betten & Resch (101031), Reichenbachstrasse 19, 80469 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 664904 A1 950802 (Basic)

EP 664904 B1 980121

WO 9409430 940428

APPLICATION (CC, No, Date): EP 93923904 931014; WO 93US9894 931014

PRIORITY (CC, No, Date): US 961271 921015

DESIGNATED STATES: DE; FR; NL

INTERNATIONAL PATENT CLASS: G06F-009/46;

NOTE:

No A-document published by EPO

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	9804	1818
CLAIMS B	(German)	9804	1675
CLAIMS B	(French)	9804	2133
SPEC B	(English)	9804	18108
Total word count - document A			0
Total word count - document B			23734
Total word count - documents A + B			23734

ORDER fax of complete patent from Dialog SourceOne. See HELP ORDER 348

...SPECIFICATION modularized, table driven system that uses transactions to perform specified functions. These functions may include **order** processing, inventory control and invoice validation; financial accounting, planning and control; **production** planning and control; and project accounting planning and control. The modules are all fully integrated...

...the order data enters a transient data queue of CICS and cannot be tracked or **managed**. In this environment, the external application cannot determine the status of its order, or even...that provides acknowledgment to external applications upon receipt of a message, and provides tracking and **management** of the message as it is processed through the transaction processing system.

Confirming receipt of...

...communication processes may exist concurrently. A communications monitor subsystem is provided to run, control, and **manage** the outbound communication processes.

The interface system according to the present invention handles three classes...one control record exists, indicating the location and the number of data records involved. In **managing** the flow of messages through the interface system, the subsystems only process the control record...

...by strobes generated by the monitor subsystem at regular timed intervals. The monitor subsystem also **schedules** the initiation of outbound processes. Outbound processes include sending acknowledgments and other outbound messages to...

...Reorganization

8. Display Function
9. Conclusion

#### 1. Overview of the Invention

The present invention is **directed** to a system and method for interfacing an external process or application (application program) to ...tasks, rather than to carry out processing of a data message.

A "record" is a **unit** of data stored on a computer system, usually in a file or database.

"Message" has...

...currently working on it and its status is expected to change.

A "header" is a **portion** of a control record, usually at the beginning of the record, which contains information necessary...

...in the record. File type is used to localize certain types of records in one **portion** of the file. Examples of file types are provided in Table 1.

A "subsystem" is...

...monitor process which monitors the records in communications log file 126. Communications monitor subsystem 110 **manages** multiple occurrences of the outbound communication process, insuring that only one task is started for...input messages 132 from external applications. Input messages 132 may include, for example, customer codes, **inventory** or **production schedule** updates, invoicing information, et cetera. According to a preferred embodiment, a plurality of input receive...

30/3,K/5 (Item 4 from file: 348)  
DIALOG(R) File 348:European Patents  
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00474180

ORDER fax of complete patent from Dialog SourceOne. See HELP ORDER 348  
**Manufacturing planning system**  
**Planungssystem fur Herstellung**

# Systeme de planification de fabrication

## PATENT ASSIGNEE:

HITACHI, LTD., (204144), 6, Kanda Surugadai 4-chome, Chiyoda-ku, Tokyo  
100, (JP), (applicant designated states: DE;FR;GB)

## INVENTOR:

Matoba, Hideaki, Hitachi Ebina Shataku F-303, 1051, Kamigo, Ebina-shi,  
(JP)

Onari, Hisashi, 2798-18, Kosugayacho, Sakae-ku, Yokohama-shi, (JP)

Watanabe, Masahiro, Hitachi Keimeiryo 222, 850, Maiokacho, Totsuka-ku,  
Yokohama-shi, (JP)

## LEGAL REPRESENTATIVE:

Altenburg, Udo, Dipl.-Phys. et al (1268), Patent- und Rechtsanwälte,  
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PATENT (CC, No, Kind, Date): EP 488246 A2 920603 (Basic)  
EP 488246 A3 930113  
EP 488246 B1 980520

APPLICATION (CC, No, Date): EP 91120315 911127;

PRIORITY (CC, No, Date): JP 90322305 901128

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: G05B-019/418;

ABSTRACT WORD COUNT: 114

LANGUAGE (Publication,Procedural,Application): English; English; English

## FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	9821	589
CLAIMS B	(German)	9821	500
CLAIMS B	(French)	9821	680
SPEC B	(English)	9821	6671
Total word count - document A			0
Total word count - document B			8440
Total word count - documents A + B			8440

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...SPECIFICATION MRP from the data storage module 11.

The MRP execution result data includes a purchase **schedule** table  
(listing items or **parts** , quantities, appointed date of **delivery** ,  
etc.) for a **product** as **ordered** and a **manufacturing schedule** table  
(listing **parts** , quantities, appointed date of **delivery** ).

The problem analysis module 7 consults the purchase schedule table

30/3,K/6 (Item 5 from file: 348)

DIALOG(R)File 348:European Patents

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00389513

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**Method of producing non-oriented magnetic steel plate having high magnetic  
flux density and uniform magnetic properties through the thickness  
direction.**

**Verfahren zur Herstellung nichtorientierter Magnetstahlbleche mit hoher  
magnetischer Flussdichte und mit gleichformigen magnetischen  
Eigenschaften in der Dicker**

**Procede de fabrication de toles d'acier magnetique non orientees, a densite  
de flux magnetique elevee et ayant des proprietes magnetiques uniformes  
dans le sens**

## PATENT ASSIGNEE:

Nippon Steel Corporation, (200952), 6-3, 2-chome, Ote-machi, Chiyoda-ku  
Tokyo 100, (JP), (applicant designated states: DE;FR;GB)

## INVENTOR:

Tomita, Yukio c/o Nippon Steel Corporation, Nagoya works 5-3, Tokai-machi  
, Tokai City Aichi Prefecture, (JP)

Yamaba, Ryota c/o Nippon Steel Corp., Nagoya works 5-3, Tokai-machi,  
Tokai City, Aichi Prefecture, (JP)

LEGAL REPRESENTATIVE:

VOSSIUS & PARTNER (100311), Postfach 86 07 67, D-81634 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 388776 A1 900926 (Basic)

EP 388776 B1 950614

APPLICATION (CC, No, Date): EP 90104818 900314;

PRIORITY (CC, No, Date): JP 8964732 890316; JP 8964733 890316; JP 8964734 890316; JP 8964735 890316; JP 8964736 890316

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: C21D-008/12;

ABSTRACT WORD COUNT: 48

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
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CLAIMS A	(English)	EPABF1	516
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CLAIMS B	(English)	EPAB95	422
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CLAIMS B	(German)	EPAB95	386
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CLAIMS B	(French)	EPAB95	492
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SPEC A	(English)	EPABF1	4466
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SPEC B	(English)	EPAB95	4465
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Total word count - document A	4982
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Total word count - document B	5765
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Total word count - documents A + B	10747
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...SPECIFICATION stress distribution and temperature distribution occurring during the rolling process. To solve this problem the **inventors** perfected a **production** method in which the grain size for uniformity through the thickness direction is made slightly...than that reduces magnetic flux density in a low magnetic field.

Example 1

Table 1 **lists** the **production** conditions, ferrite grain size, magnetic flux density in a low magnetic field and variation of...applied. (see image in original document) (see image in original document)

Example 2

Table 2 **lists** the **production** conditions, ferrite grain size, magnetic flux density in a low magnetic field and variation of...

...45. (see image in original document) (see image in original document)

Example 3

Table 3 **lists** the **production** conditions, ferrite grain size, magnetic flux density in a low magnetic field and variation of...

...coercivity. (see image in original document) (see image in original document)

Example 4

Table 4 **lists** the **production** conditions, ferrite grain size, magnetic flux density in a low magnetic field and variation of...

...properties. (see image in original document) (see image in original document)

Example 5

Table 5 **lists** the **production** conditions, ferrite grain size, magnetic flux density in a low magnetic field and variation of...

...SPECIFICATION stress distribution and temperature distribution occurring during the rolling process. To solve this problem the **inventors** perfected a **production** method in which the grain size for uniformity through the thickness direction is made slightly...than that reduces magnetic flux density in a low magnetic field.

Example 1

Table 1 **lists** the **production** conditions, ferrite grain size, magnetic flux density in a low magnetic field and variation of...applied. (see image in original document) (see image in original document)

Example 2

Table 2 **lists** the **production** conditions, ferrite grain size,

magnetic flux density a low magnetic field and variation of...

...45. (see image in original document) (see image in original document)

Example 3

Table 3 lists the **production** conditions, ferrite grain size, magnetic flux density in a low magnetic field and variation of...

...coercivity. (see image in original document) (see image in original document)

Example 4

Table 4 lists the **production** conditions, ferrite grain size, magnetic flux density in a low magnetic field and variation of...

...properties. (see image in original document) (see image in original document)

Example 5

Table 5 lists the **production** conditions, ferrite grain size, magnetic flux density in a low magnetic field and variation of...

30/3,K/7 (Item 6 from file: 348)

DIALOG(R) File 348:European Patents

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00284462

ORDER fax of complete patent from Dialog SourceOne. See HELP ORDER 348

**Computer integrated manufacturing system.**

**Integriertes Herstellungssystem mit Rechner.**

**Systeme de fabrication integree avec calculateur.**

us

PATENT ASSIGNEE:

R. J. REYNOLDS TOBACCO COMPANY, (280010), 401 North Main Street,  
Winston-Salem North Carolina 27102, (US), (applicant designated states:  
AT;BE;CH;DE;ES;FR;GB;GR;IT;LI;LU;NL;SE)

INVENTOR:

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Carolina 27041, (US)  
Cearley, Thomas W.,, 1838, Pinehurst Drive, Clemmons, North Carolina  
27012, (US)  
Chandler, David A.,, 4111, Briarcliffe Road,, Winston-Salem, North  
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Gondring, Kim A.,, 253, Glen Eagles Drive,, Winston-Salem, North Carolina  
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Guarino, Richard A.,, 3524, Stimpson Drive,, Pfafftown, North Carolina  
27040, (US)  
Hutchins, William G.,, 4340, Jane Avenue, Pfafftown, North Carolina 27040  
, (US)  
Martin, Marvin R.,, 2608, St. Johns Place, Winston-Salem, North Carolina  
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Norris, Eugene E.,, 230, Gloucestershire Place,, Winston-Salem, North  
Carolina 27104, (US)  
Prout, Lloyd T.,, 3020, Magazine Drive,, Winston-Salem, North Carolina  
27106, (US)  
Schlottman, Jeffrey R.,, 5175, Shattalon Drive,, Winston-Salem, North  
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Walsh, Victor R.,, 4532 Myrtle Avenue,, Winston-Salem, North Carolina  
27106, (US)

LEGAL REPRESENTATIVE:

Hoeger, Stellrecht & Partner (100381), Uhlandstrasse 14c, D-7000  
Stuttgart 1, (DE)

PATENT (CC, No, Kind, Date): EP 282697 A2 880921 (Basic)



EP 282697 A3 910424

APPLICATION (CC, No, Date): EP 88100768 880120;  
PRIORITY (CC, No, Date): US 5172 870120; US 53909 870526  
DESIGNATED STATES: AT; BE; CH; DE; ES; FR; GB; GR; IT; LI; LU; NL; SE  
INTERNATIONAL PATENT CLASS: G06F-015/21;  
ABSTRACT WORD COUNT: 109

LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF1	2024
SPEC A	(English)	EPABF1	39551
Total word count - document A			41575
Total word count - document B			0
Total word count - documents A + B			41575

ORDER fax of complete patent from Dialog SourceOne. See HELP ORDER 348

...SPECIFICATION Strip. The first part involves the updating of miscellaneous tobacco and Final Blended Strip floor **inventories** by way of receipts, shipments, **inventory** adjustments, and **production** runs. These updates are all handled via external system interfaces.

The second part involves the...software is used by the Inventory Update function to modify the in-plant miscellaneous tobacco **inventory** as well as any FBS floor tobacco that may be used in a **production** run.

Notification of an available batch/run history is sent in a message through mailbox...Filler Storage. The first part involves the updating of miscellaneous tobacco and Cut Filler floor **inventories** by way of receipts, shipments, **inventory** adjustments, and **production** runs. These updates are all handled via external system interfaces. The second part involves the...~~schedule data is constructed on Level II~~ such that it replaces, in whole, the old **schedule** at Level II. This committing of a new **schedule** happens independent of what is happening at Level I.

Once the new **schedule** is at Level II, the data is supplied to Level I in the manner described...

...software is used by the Inventory Update function to modify the in-plant miscellaneous tobacco **inventory** as well as any CFS floor tobacco that may be used in a **production** run.

Notification of an available batch/run history is sent in a message through mailbox...

30/3,K/8 (Item 7 from file: 348)

DIALOG(R) File 348:European Patents

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00209269

ORDER fax of complete patent from Dialog SourceOne. See HELP ORDER 348

**Software structuring system and method by data table translation.**

**System und Verfahren zur Programmstrukturierung durch Datentabellenubersetzung.**

**Systeme et methode de structuration de programmes par traduction de tables de donnees.**

PATENT ASSIGNEE:

HITACHI, LTD., (204144), 6, Kanda Surugadai 4-chome, Chiyoda-ku, Tokyo 100, (JP), (applicant designated states: DE;FR;GB)

INVENTOR:

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Tsuchiya, Noboru, Maeda Haitzu 9-924 511-2 Maedacho, Totsuka-ku Yokohama, (JP)

Kamikubo, Tadamasa, 389 Mineokacho-3-chome, Hodogaya-ku Yokohama, (JP)

Onari, Hisashi, 2798-18, Kosugayacho, Totsuka-ku Yokohama, (JP)

LEGAL REPRESENTATIVE:

Patentanwalte Beetz - Timpe - Siegfried Schmitt-Fumian - Mayr (100712)  
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PATENT (CC, No, Kind, Date): EP 218258 A2 870415 (Basic)  
EP 218258 A3 910502  
EP 218258 B1 940105

APPLICATION (CC, No, Date): EP 86114037 861010;

PRIORITY (CC, No, Date): JP 85224705 851011

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: G06F-009/44;

ABSTRACT WORD COUNT: 129

LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPBBF1	1145
CLAIMS B	(German)	EPBBF1	1120
CLAIMS B	(French)	EPBBF1	1376
SPEC B	(English)	EPBBF1	6707
Total word count - document A			0
Total word count - document B			10348
Total word count - documents A + B			10348

✓

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...SPECIFICATION may be expressed in terms of a process of table translation as illustrated in Fig. 7 . At first, a production plan table containing **items** concerning the **product** , quantity, the date of delivery and the **production** starting date is inputted together with a standard **schedule** table **listing** the **product** and the number of days required for the **production** to determine the start date which has been pending until then, and a **production plan** table is outputted. Subsequently, the **production plan** table is inputted together with a part arrangement table **listing** the items concerning the product, **part** and the number of parts whereby a part request table listing items concerning the product...part explosion function", it is intended to mean the function of calculating the quantity of **parts** and the time **required** for manufacturing a designated **number of ordered products** till the date of **delivery** in accordance with the **scheduled production plan** . (This function **may also** be referred to as the explosion of required quantity.) More specifically, the function of part ...

...figure, at a level 1, the production plan table containing the items "Product", "Quantity" and "**Delivery** Date" is inputted together with the **standard schedule** table containing the items "Product " and "**Number** of Days", wherein the **production start** date is determined for the **product** listed in both of the tables inputted in accordance with the expression (Start Date := Delivery Date.

34/3,K/1 (Item 1 from file: 349)  
DIALOG(R) File 349:PCT Fulltext  
(c) 2000 WIPO/MicroPatent. All rts. reserv.

00612857

**WEB ACCESS FOR A MANUFACTURING EXECUTION SYSTEM**  
**ACCES WEB UTILE POUR UN SYSTEME D'EXECUTION DE FABRICATION**

Patent Applicant/Assignee:

BASE TEN SYSTEMS INC; Address - BASE TEN SYSTEMS, INC. , One Electronics  
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Inventor(s):

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McCUSKER James V; Address - McCUSKER, James, V. , 760 Stockton Drive,  
Souderton, PA 18964 , US

Patent and Priority Information (Country, Number, Date):

Patent: WO 9858326 A1 19981223

Application: WO 98US12084 19980612 (PCT/WO US9812084)

Priority Application: US 97876606 19970616

5847957

Designated States: AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; CA; CH; CN; CU;  
CZ; DE; DK; EE; ES; FI; GB; GE; GH; GM; GW; HU; ID; IL; IS; JP; KE; KG;  
KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MD; MG; MK; MN; MW; MX; NO; NZ;  
PL; PT; RO; RU; SD; SE; SG; SI; SK; SL; TJ; TM; TR; TT; UA; UG; UZ; VN;  
YU; ZW; GH; GM; KE; LS; MW; SD; SZ; UG; ZW; AM; AZ; BY; KG; KZ; MD; RU;  
TJ; TM; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL;  
PT; SE; BF; BJ; CF; CG; CI; CM; GA; GN; ML; MR; NE; SN; TD; TG

Publication Language: English

Filing Language: English

Fulltext Word Count: 1776

International Patent Class: G06F-019/00 ; H01J-013/00;

Fulltext Availability:

Detailed Description

Detailed Discription

... as the one shown in the Figure, various workstations 12A-12N are  
distributed throughout the **production** system and control various  
functions of the **manufacturing** execution system, such as receiving and  
**inventory management** , dispensing, quality control, **scheduling** ,  
resource **management** , equipment **management** , human resources  
**management** , security, **production** positions, waste **management** and  
facility and equipment monitoring and control. Data from each of the  
workstations 12A-12N...

34/3,K/2 (Item 2 from file: 349)  
DIALOG(R) File 349:PCT Fulltext  
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00426774

**CONTROL SYSTEMS BASED ON SIMULATED VIRTUAL MODELS**  
**SYSTEMES DE COMMANDE BASES SUR DES MODELES VIRTUELS SIMULES**

Patent Applicant/Assignee:

INTERTECH VENTURES LTD  
THALHAMMER-REYERO Cristina

Inventor(s):

THALHAMMER-REYERO Cristina

Patent and Priority Information (Country, Number, Date):

Patent: WO 9622575 A1 19960725

Application: WO 96US883 19960117 (PCT/WO US9600883)

Priority Application: US 95373688 19950117; US 95373992 19950117

Designated States: CA; JP; US; US; AT; BE; CH; DE; DK; ES; FR; GB; GR; IE;  
IT; LU; MC; NL; PT; SE

Publication Language: English

Fulltext Word Count: 138832

Main International Patent Class: G06F-019/00 ;

Fulltext Availability:

Detailed Description

Detailed Description

... for  $E + I \rightarrow El$ . The production rate of  $I'$  is influenced by, the Concentration of **directl** %l, and l, indirectl/l, while the **production** rate of  $El$  is indirectl/, influenced by the Concentration of S. It is also...

34/3,K/3 (Item 3 from file: 349)

DIALOG(R) File 349:PCT Fulltext

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00419935

COMPUTER SYSTEM INCLUDING MEANS FOR DECISION SUPPORT SCHEDULING

SYSTEME INFORMATIQUE DOTE DE MOYENS DE PLANIFICATION D'AIDE A LA DECISION

Patent Applicant/Assignee:

SUN OPTTECH LTD

KOSKI Robert E

BARLOW Christopher

Henderson Kenneth R

Inventor(s):

KOSKI Robert E

BARLOW Christopher

Henderson Kenneth R

Patent and Priority Information (Country, Number, Date):

Patent: WO 9616365 A2-A3 19960530

Application: WO 95IB1160 19951114 (PCT/WO IB9501160)

Priority Application: US 94339520 19941114

Designated States: AU; CA; JP; KR; MX; US; AT; BE; CH; DE; DK; ES; FR; GB;

GR; IE; IT; LU; MC; NL; PT; SE

Publication Language: English

Fulltext Word Count: 16246

Main International Patent Class: G06F-019/00 ;

Fulltext Availability:

Claims

Claim

... customer if unable to provide said capability by said defined time; v) querying the resource **inventory** to determine availability of resources for **production** of said object within the defined time, and **scheduling** said resources; vi) communicating a rich response to the customer if there are insufficient resources...

19/3,K/1 (Item 1 from file: 351)  
DIALOG(R) File 351:DERWENT WPI  
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012721048 \*\*Image available\*\*  
WPI Acc No: 99-527160/199944  
XRPX Acc No: N99-390490

**Multiport data collection system used in computer personal real time  
burn-in testing**

Patent Assignee: INST INFORMATION IND (INFO-N)

Inventor: SU S; WANG T

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
US 5953688	A	19990914	US 97852528	A	19970507	G06F-009/38	199944 B

Priority Applications (No Type Date): TW 96U212169 U 19960809

Language, Pages: US 5953688 (16)

... 20) connected to microcontroller shows state message. The memory  
connected to the microcontroller serves as **register** for the test  
results...

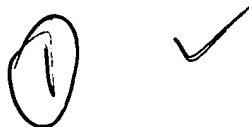
...For use in personal computer real time burn-in testing using  
**hierarchical network** during **manufacture** of PC in factories. Also  
for burn-in testing of facsimile, scanners...

...occurs and to determine the failure percentage of the machine thereby  
yield is improved and **production** cost is reduced. Since the test  
results are collected and recorded automatically, the **production**  
record keeping and data analysis are performed effectively. Saves large  
number of energy by shortening **functional** test time. Improves  
**management** efficiency since the data collection system is in line with  
the spirit of the ISO quality standardization by effectively preserving  
the **production** records and analyzed data for quality control analysis

24/3,K/1 (Item 1 from file: 347)  
DIALOG(R)File 347:JAPIO  
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05235086 \*\*Image available\*\*  
PARTS PROCUREMENT SYSTEM

PUB. NO.: 08-190586 [JP 8190586 A]  
PUBLISHED: July 23, 1996 (19960723)  
INVENTOR(s): FUKUYAMA TAKESHI  
KUNIMOTO HIROBUMI  
YAMAKURA KAZUYUKI  
KANEKO KUNIYA  
WAKIYAMA HARUMICHI  
TAMADA SHUICHI  
APPLICANT(s): TOYOTA MOTOR CORP [000320] (A Japanese Company or  
Corporation), JP (Japan)  
APPL. NO.: 06-286907 [JP 94286907]  
FILED: November 21, 1994 (19941121)



#### ABSTRACT

... delivery many parts for every classification at a proper timing by providing a required number **register** means, a delivery lead time **register** means, a delivery instruction system determining means, a progress condition detecting means, and a parts...

...CONSTITUTION: **Production plan** information and **plan** variance information are outputted from a **production** and preparation **plan** system 20 in relation to the **parts** delivery instruction. Information on a detached KANBA, which is a card for instructing for delivery timing of **parts**, **production plan** information, **plan** variance information, work start information, and information on a part to be delivered at the...

... accordance with inputted information. That is, the processor 42 is provided with a delivery instruction **function** part 44 and an acceptance verification **function** part 48, and this **function** part 44 transmits the **production plan** delivery instruction, the work start delivery instruction, the delivery instruction at the time when the...

... assembly line, and the post-replenishing delivery instruction, to a preprocess factory 200 through a **network** 300.

24/3,K/2 (Item 2 from file: 347)  
DIALOG(R)File 347:JAPIO  
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04167243 \*\*Image available\*\*  
DEVICE AND METHOD FOR COLLECTING ACTUAL **PRODUCTION** DATA

PUB. NO.: 05-158943 [JP 5158943 A]  
PUBLISHED: June 25, 1993 (19930625)  
INVENTOR(s): ISOMURA HIROSHI  
APPLICANT(s): NEC SOFTWARE KANSAI LTD [490843] (A Japanese Company or  
Corporation), JP (Japan)  
APPL. NO.: 03-318259 [JP 91318259]  
FILED: December 03, 1991 (19911203)  
JOURNAL: Section: P, Section No. 1627, Vol. 17, No. 560, Pg. 71,  
October 08, 1993 (19931008)

DEVICE AND METHOD FOR COLLECTING ACTUAL **PRODUCTION** DATA

#### ABSTRACT

PURPOSE: To provide an actual **production** data collecting device capable of delivering data generated in respective **production** point to a **production management section** by reducing manual operation as less as possible and smoothly transmitting/receiving **production** information between respective **production** points...

... data input terminal 14 are connected to a data storing terminal 13 through a communication network and the actual data inputted from the terminal 14 are **registered** in a **register** file stored in a data base 5 included in the terminal 13. A **function** distributing processing **part** 9 allowing the terminal 14 to use **production management** data constructed in the terminal 13 is included in the terminal 13. A transmission file forming **part** 4 and a receiving file **registering part** 3 to interfaces with a master **production management** system are also included in the terminal 13.

24/3,K/3 (Item 1 from file: 351)  
DIALOG(R) File 351:DERWENT WPI  
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012995227 \*\*Image available\*\*  
WPI Acc No: 00-167079/200015  
XRPX Acc No: N00-125573

**Packet route registering method for non-broadcasting multiple access in ATM network - involves registering logic interface in routing table by obtaining production of logic interface of direct route of interface management unit, based on data link layer address**

Patent Assignee: FUJITSU LTD (FUIT )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
JP 2000022697	A	20000121	JP 98184699	A	19980630	H04L-012/28	200015 B

Priority Applications (No Type Date): JP 98184699 A 19980630

Language, Pages: JP 2000022697 (19)

**Packet route registering method for non-broadcasting multiple access in ATM network - ...**

...involves registering logic interface in routing table by obtaining production of logic interface of direct route of interface management unit, based on data link layer address

...Abstract (Basic): transmitting unit (43) detects that the direct route of the input packet (70) is not **registered** in the routing table (44), the path **management unit** (45) obtains the **production** of the logic interface of **direct** route of the interface management unit (42) based on the data link layer address and **registers** the produced logic interface in the routing table. DETAILED DESCRIPTION - The interface management unit produces...

...to a direct route and a routing route, and one-to-one correspondence relationship between **network** layer and data link layer. The routing table shows the correspondence relationship of the **network** layer address of input packet address and the logic interface. The packet transmitting unit (43)...

...the input packet to the logic interface with reference to the routing table using the **network** layer address as a key...

...USE - In host with router used for non-broadcasting multiple access in ATM **network** .

...ADVANTAGE - Direct route is produced and efficient communication is done without needing address solution **function** . DESCRIPTION OF DRAWING(S)  
- The figure shows the principal component of the end apparatus. (42)

...Title Terms: **REGISTER** ;

24/3,K/4 (Item 2 from file: 351)  
DIALOG(R) File 351:DERWENT WPI  
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012320877    \*\*Image available\*\*

WPI Acc No: 99-126983/199911

XRPX Acc No: N99-093163

**Data delivery management method for distributed computer environment**  
- involves forwarding delivery data by producing JCL for forwarding using  
production unit, to distributed computer

Patent Assignee: CANON KK (CANO )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
JP 11003239	A	19990106	JP 97167869	A	19970611	G06F-009/46	199911 B

Priority Applications (No Type Date): JP 97167869 A 19970611

Language, Pages: JP 11003239 (9)

**Data delivery management method for distributed computer environment**  
...

...involves forwarding delivery data by producing JCL for forwarding using  
production unit, to distributed computer

...Abstract (Basic): NOVELTY - Job management information **registered** by a  
job management information registration unit (41) is acquired by a host  
computer (10) through acquisition unit (42). A job control language is  
produced by JCL **production** unit. When registration is judged to be  
completed then, **production** unit (44) produces delivery data. Using  
the produced data the preprocessing result from a registration...

...post processing, delivery data are forwarded by producing JCL for a  
forwarding process by JCL **production** unit (49) to the **distributed**  
**computer** (20...

...USE - For **distributed computer** environment...

...inducing errors. DESCRIPTION OF DRAWING(S) - The figure shows a block  
diagram of a process **function** of a delivery management method. (10)  
Host **computer** ; (20) **Distributed computer** ; (41) Job **management**  
information registration unit ; (42) Acquisition unit ; (44)  
**Production unit** (45) Registration unit; (49) JCL **production** unit;  
(54) File...



26/3,K/1 (Item 1 from file: 347)  
DIALOG(R) File 347:JAPIO  
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04744407 \*\*Image available\*\*  
PARTS INFORMATION SYSTEM

PUB. NO.: 07-037007 [JP 7037007 A]  
PUBLISHED: February 07, 1995 (19950207)  
INVENTOR(s): NARISAWA TOSHIKO  
APPLICANT(s): NEC CORP [000423] (A Japanese Company or Corporation), JP  
(Japan)  
APPL. NO.: 05-156496 [JP 93156496]  
FILED: June 28, 1993 (19930628)

#### ABSTRACT

... recommended parts information and improving the precision of the procurement easiness information, to suppress the **parts** collecting variance at the **production** stage, and to produce the **parts** as **scheduled** .

...

...CONSTITUTION: A procurement information collecting part 2 of a parts information system 1 collects the **ordering** collection units of each marker, the unit prices set for each **ordering** collection unit, the reception checkup quality of parts, the result transitions of supply lead time, and the result transitions of **delivery** observance rate from a procurement control system 10 **prepared** separately as the procurement information for each name of parts. A procurement easiness calculating part 3 owns a **function** to calculate a procurement easiness index based on the data collected by the part 2. A parts information control part 4 owns a retrieving **function** to have conversations with a terminal equipment 5 **prepared** separately and outputs the procurement easiness data for a specific parts or plural parts constructing a single **function** based on the procurement easiness index.

26/3,K/2 (Item 1 from file: 351)  
DIALOG(R) File 351:DERWENT WPI  
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012466001 \*\*Image available\*\*  
WPI Acc No: 99-272109/199923  
XRPX Acc No: N99-203674

**Automatic component order term management system - generates alarm and sends it to terminal of designers when judging that particular component is not ready for order, from component design progress situation**

Patent Assignee: HITACHI LTD (HITA )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
JP 11085860	A	19990330	JP 97245800	A	19970910	G06F-017/60	199923 B

Priority Applications (No Type Date): JP 97245800 A 19970910

Language, Pages: JP 11085860 (11)

**Automatic component order term management system...**

...generates alarm and sends it to terminal of designers when judging that particular component is not ready for order, from component design progress situation

...Abstract (Basic): NOVELTY - **Order** management unit (11) computes the **order** term of a component from the expected production date stored in a memory. The conditions for **ordering** a component is checked from the component design progress situation stored in memory. DETAILED DESCRIPTION - When the components are judged that they cannot be

**ordered** , an alarm is sent to the terminal of concerned person such as designer...

...USE - For project **management** during mass **production** of **components** .  
...

...ADVANTAGE - Since the progress situation of design are considered for **order** term management and delay in design is prevented, reliably.

DESCRIPTION OF DRAWING(S) - The figure shows the **functional** block diagram of component **order** automatic management system. (11) **Order** management unit

...Title Terms: **ORDER** ;

29/3,K/1 (Item 1 from file: 347)  
DIALOG(R) File 347:JAPIO  
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05873548 \*\*Image available\*\*

**PRODUCTION SCHEDULE PLANNING METHOD FOR PART FACTORY**

PUB. NO.: 10-156648 [JP 10156648 A]  
PUBLISHED: June 16, 1998 (19980616)  
INVENTOR(s): OGATA NINKAI  
CHAEN KOICHIRO  
APPLICANT(s): HONDA MOTOR CO LTD [000532] (A Japanese Company or Corporation), JP (Japan)  
APPL. NO.: 08-315744 [JP 96315744]  
FILED: November 27, 1996 (19961127)

**PRODUCTION SCHEDULE PLANNING METHOD FOR PART FACTORY**

**ABSTRACT**

PROBLEM TO BE SOLVED: To make a **production schedule** for each process automatically by sampling a **part** to be machined in a (n-1)th process to **prepare** a machining schedule in the (n-1)th process based on a carry-out schedule...

...in which a previous process is a small assembly process is sampled based on a **delivery** schedule by small assembly part sampling process to **prepare** a small assembly **order** schedule. At this time, small assembly **delivery** time is determined based on small assembly operating time table and small assembly preceding table. Next, a small assembly charging schedule is **prepared** by scheduling process of a general-purpose scheduler 7 in a machining schedule planning computer 2 based on the small assembly **order** schedule. Then, a small assembly schedule is **prepared** by converting form lot for **scheduler** to actual **machining** lot based on the small assembly charging **schedule** and small assembly set **part** information which is information in which a painted part and a small assembly completed part...

29/3,K/2 (Item 2 from file: 347)  
DIALOG(R) File 347:JAPIO  
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05717439 \*\*Image available\*\*

**OPERATION PROCESS ALLOCATION SYSTEM**

PUB. NO.: 10-000539 [JP 10000539 A]  
PUBLISHED: January 06, 1998 (19980106)  
INVENTOR(s): OYAMA AKIHIRO  
YONEYAMA TOMOSHI  
HIDAKA TAKESHI  
APPLICANT(s): HITACHI LTD [000510] (A Japanese Company or Corporation), JP (Japan)  
APPL. NO.: 08-147675 [JP 96147675]  
FILED: June 10, 1996 (19960610)

**ABSTRACT**

... in a working operation by providing a operation process allocation device with a working priority **order preparation** means, a working production plan **preparation** means, a priority **order preparation** means, a scheduling **preparation** means, a Gantt chart **preparation** means, and a working operation addition **preparation** means...

...SOLUTION: An operation process allocation device 1 **prepares** the priority **order** for working by a working **order preparation** part 10 and **prepares** a working **production plan** by a working **production plan preparation** part 20 based on the **prepared** working priority **order**. Secondly, the working priority **order** is compiled by a priority

**order** compilation part 50 according to working progress states and stock states of works and scheduling of a working operation is **prepared** by a scheduling **preparation** part 40 based on the compiled priority **order**. A Gantt chart of the scheduling is **prepared** and displayed by a Gantt chart **preparation** part 50 and the scheduling for an **additional** work operation is **prepared** in a working operation addition **preparation** part 60. The communication between respective terminals 3 is performed by a communication part 70.

29/3,K/3 (Item 3 from file: 347)  
DIALOG(R)File 347:JAPIO  
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05451640 \*\*Image available\*\*

SUPPORT DEVICE FOR **PREPARING** UNIT BUILDING PRODUCTION SCHEDULE

PUB. NO.: 09-066440 [JP 9066440 A]  
PUBLISHED: March 11, 1997 (19970311)  
INVENTOR(s): SHIGEMATSU AKIHIKO  
APPLICANT(s): SEKISUI CHEM CO LTD [000217] (A Japanese Company or Corporation), JP (Japan)  
KYUSHU SEKISUI KOGYO KK [416055] (A Japanese Company or Corporation), JP (Japan)  
APPL. NO.: 07-220261 [JP 95220261]  
FILED: August 29, 1995 (19950829)

SUPPORT DEVICE FOR **PREPARING** UNIT BUILDING PRODUCTION SCHEDULE

#### ABSTRACT

... special facilities for each building to that of fitting general facilities for each building, calculating **preparing** work loading of a building unit for each building, and deciding a building unit **preparing order** based on the loading...

... By a load operation means 14, the work quantity of fitting the special facilities is **added** to the fitting work quantity for each residence selected by a selecting means 13 which selects sequentially a residence whose latest production day ( **delivery** ) is the earliest to calculate building unit **preparing** work load. Thereafter, a unit **preparing order** is decided based on the building unit **preparing** work load by a production **order** decision means 15, and is outputted.

29/3,K/4 (Item 4 from file: 347)  
DIALOG(R)File 347:JAPIO  
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04868167 \*\*Image available\*\*

DEVICE FOR **PREPARING** DAILY PROGRESS SCHEDULE OF UNIT HOUSE

PUB. NO.: 07-160767 [JP 7160767 A]  
PUBLISHED: June 23, 1995 (19950623)  
INVENTOR(s): OZASA JUNJI  
APPLICANT(s): SEKISUI CHEM CO LTD [000217] (A Japanese Company or Corporation), JP (Japan)  
APPL. NO.: 05-310316 [JP 93310316]  
FILED: December 10, 1993 (19931210)

DEVICE FOR **PREPARING** DAILY PROGRESS SCHEDULE OF UNIT HOUSE

#### ABSTRACT

PURPOSE: To provide a device for **preparing** the daily progress schedule of a unit house, which automatically **prepares** a schedule which strictly observes the **delivery** of the unit house...

...CONSTITUTION: The device for **preparing** the **schedule** of a unit house decides the **manufacturing order** of each house based on an

evaluation value by providing a first control means (a...  
... means (the daily progress schedule planning device 2) which digitizes a restrictive condition including the **delivery** of the house to be manufactured, adds the digitized restrictive condition to the total of...

...of the house, which is calculated by the first control means and decides the manufacturing **order** at the end of a manufacturing **order** deciding period which is set in advance from the new house having a good evaluation  
...

29/3,K/5 (Item 5 from file: 347)  
DIALOG(R) File 347:JAPIO  
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04785608 \*\*Image available\*\*  
PRODUCTION CONTROL SYSTEM

PUB. NO.: 07-078208 [JP 7078208 A]  
PUBLISHED: March 20, 1995 (19950320)  
INVENTOR(s): TATE HARUO  
APPLICANT(s): OMRON CORP [000294] (A Japanese Company or Corporation), JP  
(Japan)  
APPL. NO.: 05-223658 [JP 93223658]  
FILED: September 08, 1993 (19930908)

#### ABSTRACT

PURPOSE: To improve the precision of **production planning** by outputting a middle **scheduling** in day unit from a **production** control host, outputting a small **scheduling** whose process **order** is instructed in hour/minute unit from a **manufacturing** department server based on the middle **scheduling** and instructing **production** by **issuing** a **manufacturing order** from a site client based on the small **scheduling**.

...  
...CONSTITUTION: The production control host 1 inputs **order** prospect, and outputs the middle **scheduling** that is a material requirements planning, i.e., a planning **order** in day unit based on the **delivery** data of the **order** prospect. Thence, the manufacturing department server 2n performs process scheduling processing by referring to a set **order** when an **order** is issued, **start** data when the production is started, and completion data when it is completed fed back from the **manufacturing** site client 3n, and outputs the small **schedule plan** in hour/minute unit. The **manufacturing** site client 3n issues a production instruction by instructing **order** issuance processing, i.e., a dialy work **order** classified by every process or an **order** application **order** classified by every process based on the small **scheduling**.

29/3,K/6 (Item 6 from file: 347)  
DIALOG(R) File 347:JAPIO  
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04724360 \*\*Image available\*\*  
**DELIVERY COMMAND PREPARING METHOD**

PUB. NO.: 06-195360 [JP 6195360 A]  
PUBLISHED: July 15, 1994 (19940715)  
INVENTOR(s): KOBAYASHI KATSUJI  
APPLICANT(s): FUJITSU LTD [000522] (A Japanese Company or Corporation), JP  
(Japan)  
APPL. NO.: 04-344759 [JP 92344759]  
FILED: December 24, 1992 (19921224)

**DELIVERY COMMAND PREPARING METHOD**

#### ABSTRACT

PURPOSE: To exactly **prepare** a **delivery** command by simultaneously judging the lack and excess of stock and preserved man-hour...

...CONSTITUTION: In the case of **delivery parts** according to a **manufacturing plan** inside a **manufacturing plan** data file F3, a **parts** constitution table F1 is **prepared** by handling a manufacturing process as parts and the reference man-hour of the manufacturing...  
...as the number of parts to be used, further, a stock data file F2 is **prepared** by handling the preserved man-hour of the manufacturing process as the number of stocked...

... the parts constitution table F1 and the stock data file F2 (step 3) and the **delivery** command is **prepared** based on the judgement (step 5). Namely, the excess and lack of the stocked parts...

...as well as the excess and lack of preserved man-hour on the stage of **delivery** command **preparation**, the excess and lack of preserved man-hour for each factory can be recognized similarly to the **order** plan of parts at the time of required parts **expansion** for the unit of quarter, month and week, and the rearrangement of workers or the addition can be exactly and timely realized for the **unit** of the **manufacturing plan**.

29/3,K/7 (Item 7 from file: 347)  
DIALOG(R)File 347:JAPIO  
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04487452 \*\*Image available\*\*  
DAILY SCHEDULE PLANNING DEVICE

PUB. NO.: 06-131352 [JP 6131352 A]  
PUBLISHED: May 13, 1994 (19940513)  
INVENTOR(s): OENOKI TOSHIHIKO  
APPLICANT(s): NEC CORP [000423] (A Japanese Company or Corporation), JP  
(Japan)  
APPL. NO.: 04-307723 [JP 92307723]  
FILED: October 21, 1992 (19921021)  
JOURNAL: Section: P, Section No. 1785, Vol. 18, No. 429, Pg. 11,  
August 10, 1994 (19940810)

#### ABSTRACT

PURPOSE: To automatically **prepare** a daily scheduling so as to reduce the stock of semi-finishes products as far as possible by keeping the time limit of **delivery** of the products and in consideration of the production lines and the load of the...

...CONSTITUTION: An initial processing **part** 10 inputs the **production planning** information stored in **production planning** information file 3 and the master information stored in a master file 2 necessary for...

... latest starting and finishing days toward the head process from the final process for each **order** in each process. Then a process-based daily schedule evolving part 20 makes the daily...

... to a daily schedule file 4. In this process-based daily schedule evolving processing, an **order** -based day schedule evolving means 201 calculates the earliest starting day for each process toward...

... personnel never exceeds its limit. Then the means 201 evolves the daily schedule for each **order** in each process.

29/3,K/8 (Item 8 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2000 JPO & JAPIO. All rts. reserv.

04233498 \*\*Image available\*\*

PRODUCTION PLAN **PREPARING** DEVICE

PUB. NO.: 05-225198 [JP 5225198 A]  
PUBLISHED: September 03, 1993 (19930903)  
INVENTOR(s): OOGUSHI MASAYASU  
HIRANO KENJI  
HARADA YUKIHIKO  
APPLICANT(s): SEKISUI CHEM CO LTD [000217] (A Japanese Company or Corporation), JP (Japan)  
APPL. NO.: 04-022544 [JP 9222544]  
FILED: February 07, 1992 (19920207)  
JOURNAL: Section: P, Section No. 1659, Vol. 17, No. 677, Pg. 73,  
December 13, 1993 (19931213)

PRODUCTION PLAN **PREPARING** DEVICE

ABSTRACT

PURPOSE: To provide the production plan **preparing** device which can **prepare** any production plan for improving a working rate without generating excess stock or lack stock and can prevent merchandise **ordered** a little from being exhausted or the stock from increasing over a long time especially...

... provided with a selection part 1 to select main products to be the objects of **forward** falling **production** based on forwarding prediction and a **production plan preparation** part 3 to **plan** the **forward** falling **production** amount of main products, **forward** falling **production start** timing and stock based on the calculated value of difference between the forwarding prediction of...

...on the forwarding prediction, and a production amount correction part is provided to correct the **forward** falling production amount **prepared** in advance.

29/3,K/9 (Item 9 from file: 347)  
DIALOG(R) File 347:JAPIO  
(c) 2000 JPO & JAPIO. All rts. reserv.

03802972 \*\*Image available\*\*  
LABEL **ISSUING** DEVICE

PUB. NO.: 04-168072 [JP 4168072 A]  
PUBLISHED: June 16, 1992 (19920616)  
INVENTOR(s): KATSUMATA AKIO  
APPLICANT(s): TOKYO ELECTRIC CO LTD [000356] (A Japanese Company or Corporation), JP (Japan)  
APPL. NO.: 02-293877 [JP 90293877]  
FILED: October 31, 1990 (19901031)  
JOURNAL: Section: M, Section No. 1318, Vol. 16, No. 471, Pg. 25,  
September 30, 1992 (19920930)

LABEL **ISSUING** DEVICE

ABSTRACT

... issued, for example, part labels are first printed with shelf number(b) of the lowest **order**, that is, A-11. Then, if the part of shelf number A-11 is commonly...

... the shelf number A-11 in each lot are first printed. After that, destination for **delivery** (f) is printed with a manufacture number(e) in each issued label. Thus it is...

...manufacture number '987654321' and labels on which serial numbers in lot are printed on the **manufacture** number '135792468'. It is ensured that **parts** can be **managed** by **manufacture** number, that is, by serial number in lot for each lot.

29/3,K/10 (Item 10 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2000 JPO & JAPIO. All rts. reserv.

03468538 \*\*Image available\*\*  
COMMAND DEVICE FOR PART DELIVERY

PUB. NO.: 03-131438 [JP 3131438 A]  
PUBLISHED: June 05, 1991 (19910605)  
INVENTOR(s): INUI HIROYUKI  
KUROIWA MEGUMI  
FUJII YOSHIHITO  
OCHIAI TOSHIAKI  
ASAHARA TAKAO  
ANDO YUKITO  
APPLICANT(s): TOYOTA MOTOR CORP [000320] (A Japanese Company or Corporation), JP (Japan)  
APPL. NO.: 01-266302 [JP 89266302]  
FILED: October 16, 1989 (19891016)  
JOURNAL: Section: M, Section No. 1151, Vol. 15, No. 336, Pg. 164, August 26, 1991 (19910826)

COMMAND DEVICE FOR PART DELIVERY

#### ABSTRACT

PURPOSE: To reduce **preparing** manhours at changing an **order** system for utilizing merit of respective **order** systems and improve workability of **delivery** control by providing with an **order** system means of **parts** information, **production planning**, and **production** procedure, a control system means for receipt of **order** and **ordering**, and a commanding means for **delivery** condition...

...CONSTITUTION: At using a command device for parts **delivery**, one of a plurality of **order** systems is selected by an **ordering** control system means 81, and information output to a receipt of **order** control system means 101 is made based on **ordering** information from respective **order** system means, hereby, unified control of respective **order** systems is possible. Therefore, change of **ordering** condition is remarkably facilitated, and merit of the **ordering** system can be sufficiently utilized. By facilitating change of the **order** system, **preparing** manhours at changing can be remarkably reduced. Furthermore, as the **ordering** control system means 81 is provided with a **delivery** condition commanding means, the production side can be good only to follow to a commanded **delivery** condition, and workability of **delivery** control can be remarkably improved.

29/3,K/11 (Item 11 from file: 347)  
DIALOG(R)File 347:JAPIO  
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03284564 \*\*Image available\*\*  
SCHEDULE INFORMATION PRODUCING DEVICE

PUB. NO.: 02-260064 [JP 2260064 A]  
PUBLISHED: October 22, 1990 (19901022)  
INVENTOR(s): FUKUSHIMA HIDEO  
APPLICANT(s): TOSHIBA CORP [000307] (A Japanese Company or Corporation), JP (Japan)  
APPL. NO.: 01-083517 [JP 8983517]  
FILED: March 31, 1989 (19890331)  
JOURNAL: Section: P, Section No. 1152, Vol. 15, No. 16, Pg. 133, January 14, 1991 (19910114)

#### ABSTRACT



PURPOSE: To display a monthly schedule and a daily schedule of a selected date by **preparing** a monthly schedule production means and a daily schedule production means...

... instructing the display of the schedule data on a specific month is received, a monthly **schedule production part** 12 reads the data out of a **schedule storage part** 11 and produces a monthly schedule to **send** it to a screen control part 15 and to display it at a display part 16. Then the display of a daily schedule is **requested** via the key input. Thus the part 12 transmits a switch signal to a monthly/daily switch part 14. The **part** 14 **sends** an instruction to a daily **schedule production part** 13 with the switch signal to produce a daily schedule of the date pointed by...

29/3,K/12 (Item 12 from file: 347)  
DIALOG(R)File 347:JAPIO  
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03261269 \*\*Image available\*\*  
SCHEDULE **PREPARING** DEVICE

PUB. NO.: 02-236769 [JP 2236769 A]  
PUBLISHED: September 19, 1990 (19900919)  
INVENTOR(s): KATO HIDEKI  
APPLICANT(s): NEC CORP [000423] (A Japanese Company or Corporation), JP  
(Japan)  
APPL. NO.: 01-058973 [JP 8958973]  
FILED: March 10, 1989 (19890310)  
JOURNAL: Section: P, Section No. 1140, Vol. 14, No. 554, Pg. 142,  
December 10, 1990 (19901210)

SCHEDULE **PREPARING** DEVICE

#### ABSTRACT

... beginning stock by positioning the beginning schedule date of each manufacturing process at either the **start** time, the completion time, or the intermediate time of a time zone including allowance allocated...

...CONSTITUTION: The **schedule preparing** device is comprised of a **manufacturing order** update **part** 1 which performs the development and update of a manufacturing **order** supplied from the outside to process information, a manufacturing **order** storage part 2, a process information storage part 3, a spare time division part 4...

... of the work requiring time of each process to total requiring time by utilizing manufacturing **order** information including the item, **delivery** date, and a day possible to begin of the manufacturing **order** and the process information including a process procedure and the standard time of each process. And the beginning schedule date of each process is positioned at the **start** point, the intermediate point, or the completion point of process requiring time replying to an...

29/3,K/13 (Item 13 from file: 347)  
DIALOG(R)File 347:JAPIO  
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02982910 \*\*Image available\*\*  
LINING TECHNIQUE OF EXISTING PIPE

PUB. NO.: 01-280510 [JP 1280510 A]  
PUBLISHED: November 10, 1989 (19891110)  
INVENTOR(s): FUJII SHIGEKI  
HIRAYAMA KOZO  
YASUHARA MINORU  
SONKO MASAHISA

APPLICANT(s): SEKISUI CHEMICAL CO LTD [000217] (A Japanese Company or Corporation), JP (Japan)  
APPL. NO.: 63-109566 [JP 88109566]  
FILED: May 02, 1988 (19880502)  
JOURNAL: Section: M, Section No. 928, Vol. 14, No. 52, Pg. 143,  
January 30, 1990 (19900130)

ABSTRACT

...propelled within the existing pipe in succession and the diameter of the spiral pipe is **expanded** in **order** by sliding mutually the side fringe parts of a beltlike body fitted in mutually...

...CONSTITUTION: When a spiral pipe 10' obtained by fitting in mutually strongly the side fringe **parts** of a beltlike body adjoining to each other is **manufactured**, the spiral **part** 10' is inserted **directly** into a drain-pipe from a pipe making machine 20 and the spiral pipe 10...

...pipe 81, manufacture of the spiral pipe 10' with the pipe making machine 20 is **suspended** once and the tip of the spiral pipe 10' is fixed to the end part...

... pipe 81 by driving in, for example, anchor. When beltlike bodies 10 are fed in **order** to the made spiral pipe 10' with driving of the pipe making machine 20, a...

...fitting rib 13 are slid mutually and the diameter of the spiral pipe 10' is **expanded** in **order** from a fixed tip side. A flange part 17b of each reinforcing rib 17 in...

29/3,K/14 (Item 14 from file: 347)  
DIALOG(R)File 347:JAPIO  
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02192258 \*\*Image available\*\*  
SUPPORT SYSTEM FOR PRODUCTION OF PLAN

PUB. NO.: 62-109158 [JP 62109158 A]  
PUBLISHED: May 20, 1987 (19870520)  
INVENTOR(s): KAWASHIMA KAZUHIRO  
KOMODA NORIHISA  
HARADA SHUNICHI  
MIMORI SADAMICHI

APPLICANT(s): HITACHI LTD [000510] (A Japanese Company or Corporation), JP (Japan)  
APPL. NO.: 60-248812 [JP 85248812]  
FILED: November 08, 1985 (19851108)  
JOURNAL: Section: P, Section No. 628, Vol. 11, No. 324, Pg. 103,  
October 22, 1987 (19871022)

ABSTRACT

... planner to give correction directly to existing plan software by providing a work logic storing **part** which stores the **plan production** logic that is frequently changed to a **plan** logic storing **part** together with a calculation logic storing **part** which stores the logic having no change...

...CONSTITUTION: A **plan producing** device 12 is provided with a **plan production** control **part** 17, a work logic correcting **part** 18, a work logic executing **part** 19, a calculation logic executing **part** 20, a work logical file 21, an evaluation value file 22, and a calculation logical file 23. The **part** 17 supplies the correcting information of the **plan production** information on the **plan production start** and the work logic, the information on the executing permission and the acquired items which are **sent** from a plan production terminal 2, an operation controller 11 and an acquired item file 15. Based on these information, the correcting information is **sent** to a plan logic correcting **part** through a signal line 83 and the **start request** information is **sent** to the parts 19 and 10

through a signal line 85 thus the plan production...

29/3,K/15 (Item 15 from file: 347)

DIALOG(R)File 347:JAPIO

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02182140 \*\*Image available\*\*

AUTOMATIC MACHINING SYSTEM HAVING TOOL FEEDING DEVICE

PUB. NO.: 62-099040 [JP 62099040 A]

PUBLISHED: May 08, 1987 (19870508)

INVENTOR(s): SATO SHINICHI

APPLICANT(s): TOSHIBA CORP [000307] (A Japanese Company or Corporation), JP (Japan)

APPL. NO.: 60-239010 [JP 85239010]

FILED: October 25, 1985 (19851025)

JOURNAL: Section: M, Section No. 631, Vol. 11, No. 316, Pg. 30,  
October 15, 1987 (19871015)

#### ABSTRACT

... tool and a tool feeding device by providing a means of making a tool feeding **schedule** according to **machining** and **machining order** data and a means of changing said **schedule** in a control **unit**, and changing said **schedule** in accordance with change in the machining operation of said machine...

...CONSTITUTION: Machining and machining **order** data are inputted from an upper control unit 5 into a control unit 3, a...

... part 21, a tool assembling/disassembling part 22, and a tool conveying part 23, is **prepared** and **sent** to a feed control part 24, and a machine tool 11 starts machining via a...

...an indication of change in machining contents, extension or reduction in machining time, etc. and **sends** it to the feed control part 24, to reduce the waiting time for the machine...

... of stopping machining operation due to a trouble, the tool feeding schedule is changed and **sent** to the feed control part 24 to reduce the waiting time.

29/3,K/16 (Item 16 from file: 347)

DIALOG(R)File 347:JAPIO

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01454847 \*\*Image available\*\*

METHOD OF NUMERICALLY CONTROLLING MACHINING OF RIGHT-TO-LEFT SYMMETRIC WORKPIECE

PUB. NO.: 59-166447 [JP 59166447 A]

PUBLISHED: September 19, 1984 (19840919)

INVENTOR(s): SUZUKI WATARU  
YUINARI MASAO

APPLICANT(s): HONDA MOTOR CO LTD [000532] (A Japanese Company or Corporation), JP (Japan)

APPL. NO.: 58-019236 [JP 8319236]

FILED: February 08, 1983 (19830208)

JOURNAL: Section: M, Section No. 354, Vol. 09, No. 22, Pg. 2, January 30, 1985 (19850130)

#### ABSTRACT

... with the copying of data and the modification of a machining model, by reversing the **order** or reading of **machining** data, for a **unit** processing **section** in which the **direction** of the contact of a tool becomes opposite due to the symmetry of a workpiece...

...reference side. After the machining to the point a', the tape is skipped in the **forward direction** to **start machining** a next processing **section**. A die or the like is thus completed without copying the data and modifying a...

29/3,K/17 (Item 1 from file: 351)  
DIALOG(R)File 351:DERWENT WPI  
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011096432 \*\*Image available\*\*  
WPI Acc No: 97-074357/199707  
XRPX Acc No: N97-061776

**Information processing system in sales division of mfg company - has data processing unit which processes definite and indefinite item based on processing routine established beforehand**

Patent Assignee: HITACHI LTD (HITA )  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
JP 8320900	A	19961203	JP 95127808	A	19950526	G06F-017/60	199707 B

Priority Applications (No Type Date): JP 95127808 A 19950526  
Language, Pages: JP 8320900 (8)

...Abstract (Basic): input. An input which indicates whether the processing item is definite or indefinite is also **added** to these processing items. The input data are stored **orderly** into a memory unit. Then, the items are read for every predefined time. The indefinite...

...ADVANTAGE - Performs effective processing of definite and indefinite items, thereby raising work efficiency. Performs **production** document **issuing** and **production scheduling** using data processing **part**.

29/3,K/18 (Item 2 from file: 351)  
DIALOG(R)File 351:DERWENT WPI  
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010395070 \*\*Image available\*\*  
WPI Acc No: 95-296383/199539  
XRPX Acc No: N95-224624

**File processing and management method of production unit in factory - involves preparing menu to select application program group for its performance**

Patent Assignee: HONDA MOTOR CO LTD (HOND )  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
JP 7192049	A	19950728	JP 93329168	A	19931227	G06F-017/60	199539 B

Priority Applications (No Type Date): JP 93329168 A 19931227  
Language, Pages: JP 7192049 (6)

**File processing and management method of production unit in factory**  
...

...involves preparing menu to select application program group for its **performance**

...Abstract (Basic): To these numbers a composition of production line with respect to that particular product is **added**. This **added** data along with the above specified numbers are used to **start** the file system. For this starting purpose, the above number is filed. These numbers are ...

...file during a performance of each application program group. A menu

processing stage in **order** is comprised for the above application program group. From the menu, the application program group...  
...Title Terms: **PREPARATION** ;

**29/3,K/19** (Item 3 from file: 351)  
DIALOG(R)File 351:DERWENT WPI  
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010384897 \*\*Image available\*\*  
WPI Acc No: 95-286211/199538

**Production scheme appts. - has load plan production unit to produce load plan of whole process thereby satisfying delivery date by feed forward pile provision**

Patent Assignee: KOBE STEEL LTD (KOBM )  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
JP 7182420	A	19950721	JP 93324100	A	19931222	G06F-017/60	199538 B

Priority Applications (No Type Date): JP 93324100 A 19931222  
Language, Pages: JP 7182420 (6)

... **has load plan production unit to produce load plan of whole process thereby satisfying delivery date by feed forward pile provision**

...Abstract (Basic): the first process, expected at a confinement date by subtracting the read item from the **delivery** time. A production unit is used to collect dates corresponding to the **start** of the first process for every specification **order** and to compose the first stage ...

...composed stage exceeds the production capability of first process with a predetermined period. The load **plan production unit** produces the load **plan** of the first process based on the expected confinement date, fetching a next **order** . A feed **forward** pile is provided based on the calculated load plan to satisfy the **delivery** date...

...ADVANTAGE - Maximises productivity of requisite goods. Ensures ideal **delivery** date. Allows for simple organisational plant maintaining production process...

...Title Terms: **DELIVER** ;

**29/3,K/20** (Item 4 from file: 351)  
DIALOG(R)File 351:DERWENT WPI  
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009676786 \*\*Image available\*\*  
WPI Acc No: 93-370339/199347  
XRPX Acc No: N93-285929

**Control system for recordable magneto-optical disc - produces reproduction advancement data and playback pointer for forward and reverse play using table of contents information from disc**

Patent Assignee: SONY CORP (SONY )  
Inventor: TAKEZAWA M  
Number of Countries: 004 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
EP 570922	A2	19931124	EP 93108116	A	19930518	G11B-027/10	199347 B
US 5477516	A	19951219	US 9362564	A	19930517	G11B-005/09	199605
			US 95406776	A	19950317		
EP 570922	A3	19950621	EP 93108116	A	19930518	G11B-027/10	199611
EP 570922	B1	19990714	EP 93108116	A	19930518	G11B-027/10	199932
DE 69325616	E	19990819	DE 625616	A	19930518	G11B-027/10	199939
			EP 93108116	A	19930518		

Priority Applications (No Type Date): JP 92151131 A 19920520

Filing Details:

Patent Kind Filing Notes Application Patent

EP 570922 A2

Designated States (Regional): DE FR GB

US 5477516 A Cont of US 9362564

EP 570922 B1

Designated States (Regional): DE FR GB

DE 69325616 E Based on EP 570922

Language, Pages: EP 570922 (E, 21); US 5477516 (19); EP 570922 (E)

... produces reproduction advancement data and playback pointer for forward and reverse play using table of contents information from disc

...Abstract (Basic): and/or playback of data. The tables allow ordinary and special playback operations in the **forward** direction and the reverse direction...

...tables are produced based on user TOC information such that segment numbers are indicated in **order** of numbers of programs to be reproduced or in set **order** of playback. Upon playback, a playback pointer is used with the playback table data to indicate a segment so that the segments can be accessed successively in the **forward** or reverse play direction...

...Abstract (Equivalent): on it segment management data including number of part tables, where first part table has **start** address and an end address of first program segment and link information indicative of second part table in which **start** address and an end address of second program segment to be linked to end address...

...means for **producing** reproduction advancement data from **segment management** data read out by data read-out means, reproduction advancement data being produced by rearranging...

...link information contained in part tables, rearranged segment management data including segment numbers indicated in **order** of reproduction, so that segments can be accessed successively in **forward** or reverse reproducing direction...

...Title Terms: **FORWARD** ;

29/3,K/21 (Item 5 from file: 351)

DIALOG(R)File 351:DERWENT WPI

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008569361 \*\*Image available\*\*

WPI Acc No: 91-073396/199110

XRPX Acc No: N91-056765

**Control system for manufacturing process - has units, including parts packaging machines, to process products, and cell controllers to control units**

Patent Assignee: FUJITSU LTD (FUIT )

Inventor: FURUKAWA S; OHIDE H; SEKI Y; SUZUKI S; FURUKAWA S J S; SEKI Y I; SUZUKI S I

Number of Countries: 006 Number of Patents: 008

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
WO 9101850	A	19910221				B	199110 B
EP 437634	A	19910724	EP 90912051	A	19900810	B	199130
JP 2511239	X	19910704	JP 90511239	A	19900810	B	199133
US 5237508	A	19930817	WO 90JP1025	A	19900810	B	199334
			US 91674323	A	19910410		
EP 437634	A4	19920318	EP 90912051	A	19900000	B	199521
EP 437634	B1	19961120	EP 90912051	A	19900810	B	199651
			WO 90JP1025	A	19900810		
DE 69029193	E	19970102	DE 629193	A	19900810	B	199706

90912051 A 19900810  
WO 90JP1025 A 19900810  
CA 2038939 C 19970617 CA 2038939 A 19900810 B 199736

Priority Applications (No Type Date): JP 9018055 A 19900130; JP 89207158 A 19890810; JP 89314347 A 19891205; JP 9012810 A 19900123; JP 90511239 A 19900810

Filing Details:

Patent	Kind	Filing Notes	Application	Patent
WO 9101850	A			
		Designated States (National):	CA JP US	
		Designated States (Regional):	DE FR GB	
EP 437634	A			
		Designated States (Regional):	DE FR GB	
US 5237508	A	Based on		WO 9101850
EP 437634	B1	Based on		WO 9101850
		Designated States (Regional):	DE FR GB	
DE 69029193	E	Based on		EP 437634
		Based on		WO 9101850

Language, Pages: US 5237508 (100); EP 437634 (E, 110)

...Abstract (Basic): and automated production line to meet demands for multi-products/small lot production and shorter **delivery** time. Cell controllers (2) control the units, and the line control system (3) centrally controls...

...is provided with a detailed work schedule having a plan covering a comparatively short term, **prepared** out of a comparatively long term schedule. Work-in-process status of associated products on...

...Abstract (Equivalent): facilities, the line control system (3) comprising means (401) for generating a production schedule from **order** data and manufacturing data, and characterised in that the line control system comprises means (401) for extracting a short **part** of the **production schedule**, representing a relatively short period of the **production schedule**, and means (420) for **preparing** a detailed execution **schedule** for the facilities according to the extract and according to real time data collected from...

...Abstract (Equivalent): The line control system (3) comprises a unit (401) for **preparing** a detailed execution schedule by considering, in real time, a schedule of a relatively short...

...line control system controls the cell controllers, parts mounters, and transporting unit according to the **prepared** execution schedule...

...for dealing with demand of producing many kinds of products in small quantities within short **delivery** period by improving productivity of production lines and unmanned operation of lines...

29/3,K/22 (Item 6 from file: 351)  
DIALOG(R)File 351:DERWENT WPI  
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007970678  
WPI Acc No: 89-235790/198933  
XRAM Acc No: C89-104995  
XRPX Acc No: N89-179622

**Profiled fibre matting mfg. - uses grid during steaming to contain expansion and give embossed surface pattern and stabilise it for movement through pressing**  
Patent Assignee: SOC GENERALE (GENE-N); LIGNOTOCK GMBH (LIGN-N); KISS G H (KISS-I); SOCIETE GENERALE (SOCI-N)  
Inventor: KISS G H  
Number of Countries: 009 Number of Patents: 010  
Patent Family:  
Patent No Kind Date Applicat No Kind Date Main IPC Week  
EP 328477 A 19890816 EP 89730012 A 19890125 198933 B

DE 3804416	A	19890824	3804416	A	19880210	198935
JP 1247108	A	19891003	JP 8932560	A	19890210	198945
US 4913872	A	19900403	US 89305462	A	19890201	199019
DE 3804416	C	19910425				199117
CA 1297250	C	19920317				199217
EP 328477	B1	19921230	EP 89730018	A	19890125 B27N-005/00	199301
DE 58903133	G	19930211	DE 503133	A	19890125 B27N-005/00	199307
			EP 89730018	A	19890125	
ES 2037461	T3	19930616	EP 89730018	A	19890125 B27N-005/00	199327
KR 9301028	B1	19930213	KR 891538	A	19890210 B27N-003/12	199417 N

Priority Applications (No Type Date): DE 3804416 A 19880210; KR 891538 A 19890210

#### Filing Details:

Patent	Kind	Filing	Notes	Application	Patent
EP 328477	A				
		Designated States (Regional): DE ES FR GB IT			
EP 328477	B1				
		Designated States (Regional): DE ES FR GB IT			
DE 58903133	G	Based on		EP 328477	
ES 2037461	T3	Based on		EP 328477	
Language, Pages: EP 328477 (G, 5); EP 328477 (G, 6)					

... uses grid during steaming to contain expansion and give embossed surface pattern and stabilise it for movement through pressing

...Abstract (Basic): on one side by a line or screen grid. This at least partially contains the **expansion** of the material, and embosses the grid pattern on the material surface...

...Abstract (Equivalent): Process for the **manufacture** of spatially shaped pressed **parts** of **plane** fibre-matting cut-outs, which contain bonding agents and preferably cellulose and/or lignocellulose fibres...

...of steam treatment or sufficiently plasticized for shaping by another type of thermal treatment, in **order** to be finally subjected in this state to a pressing process which compresses and deforms...

...Abstract (Equivalent): suitable temp. for long enough to cause it to be urged against the grid by **expansion** .

...

...Portions of the grid which engage the mat are **stopped** from further **expansion** , but elsewhere the mat **expands** further. Pref. the steam is superheated

...Title Terms: **EXPAND** ;

29/3,K/23 (Item 7 from file: 351)  
 DIALOG(R)File 351:DERWENT WPI  
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004183584  
 WPI Acc No: 85-010464/198502  
 XRPX Acc No: N85-007458

**Device for monitoring equipment output - uses sensor for actual production and control units for planned production for each objective or machine being monitored**

Patent Assignee: URALCHERMETAUTOMATI (URAL-R)  
 Inventor: KITAEV V A; MIKHAILOV R P  
 Number of Countries: 001 Number of Patents: 001  
 Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
SU 1092541	A	19840515	SU 3548689	A	19830204		198502 B

Priority Applications (No Type Date): SU 3548689 A 19830204  
 Language, Pages: SU 1092541 (4)

... uses sensor for actual production and control units for planned



production for each objective or machine being monitored

...Abstract (Basic): At the **start** the generator (11) **sends** pulses to the input of the distributor (4). A pulse at output (0) puts memory...  
...is recorded in adder (10). With the first pulse to adder (10), its first binary **order** changes from a logic '0' to a logic '1' state and this is signalled to...

...If, in any of the control units, there is a logic '1' in the highest **order** for the planned production, then, in this channel, the output on the commutator (3) will...

...When a logic '1' signal is received in the count in the highest **order** of the control unit (6), a signal goes from commutator (3) to the second input...

...4) for another cycle. Two pulses are counted up in adder (10) and its second **order** changes from 0 to 1 and so on. The capacity of the adder (10) and...

...each pulse from the generator (11) there is a count of actual production for each **order** or bit of the number involved for each machine...

29/3,K/24 (Item 8 from file: 351)  
DIALOG(R)File 351:DERWENT WPI  
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003776341

WPI Acc No: 83-772564/198339

XRAM Acc No: C83-092513

**Immunogenic conjugate of hapten(s) and muramyl peptide derivs. - without macromolecular supports, has reduced pyrogenic effect and gives protection against hapten and structurally related natural antigens**

Patent Assignee: ANVAR AGENCE NAT VALORISATION (ANVR )

Inventor: AUDIBERT F; CARELLI C; CHEDID L; CHOAY J; LEFRANCIER P; LEVEL M

Number of Countries: 021 Number of Patents: 014

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
EP 89290	A	19830921	EP 83400525	A	19830315		198339 B
FR 2522967	A	19830916					198342
AU 8312485	A	19830922					198345
DK 8301203	A	19831114					198401
JP 58208237	A	19831203	JP 8341623	A	19830315		198403
HU 30968	T	19840428					198424
ZA 8301907	A	19840319	ZA 831907	A	19830318		198426
CA 1193216	A	19850910					198541
US 4639512	A	19870127	US 83474361	A	19830311		198706
ES 8608883	A	19861216	ES 520915	A	19830315		198707
SU 1331433	A	19870815	SU 3568453	A	19830315		198813
EP 89290	B	19890614					198924
DE 3380053	G	19890720					198930
JP 95020882	B2	19950308	JP 8341623	A	19830315	A61K-039/385	199514

Priority Applications (No Type Date): FR 824353 A 19820315; ZA 831907 A 19830318

Filing Details:

Patent	Kind	Filing Notes	Application	Patent
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EP 89290	A			
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Designated States (Regional): AT BE CH DE FR GB IT LI LU NL SE

EP 89290	B			
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Designated States (Regional): AT BE CH DE FR GB IT LI LU NL SE

JP 95020882	B2	Based on	JP 58208237	
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Language, Pages: EP 89290 (F, 47); EP 89290 (F); JP 95020882 (15)

...Abstract (Basic): have a structural relationship (peptide sequence) to the hapten. The conjugates may be used to **prepare** vaccines against

infectious microorganisms (bacteria, parasitic viruses, rickettsia, protozoa etc.) e.g. viral hepatitis B...

...Abstract (Equivalent): and, furthermore, in that said conjugate presents a molecular a wt lower than 5000 in **order** that the conjugate obtd not be able to induce beyond the expected immunogenicity, the **production** of antibodies **directed** against the muramylpeptide **part** itself of the conjugate with the **additional** con